

# **PERINATAL INDICATORS**

**Los Angeles County**

# **1998**

**Complete Set of All Tables,  
Charts and Graphs Presenting Perinatal  
Information for the California MCAH  
Family Health Outcomes Project  
(FHOP)**

Unless otherwise cited, data provided by:  
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Produced by:      Epidemiology Assessment Unit  
Family Health Programs  
Public Health Programs  
Los Angeles County, Department of Health Services

Statistical Calculation, Charting, Mapping & Research Performed  
Diana Y. Liu, Epidemiologist  
Diana Kurniawan, Epidemiology Analyst  
Margaret Chao, Senior Staff Analyst  
J. Carmen Gutierrez, Data System Analyst I  
Shelly Tillett, Intermediate Typist Clerk



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# **Distribution of Live Births**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Birth rate, 1990-1998

**DEFINITION:** The number of live births per 1,000 total population

**NUMERATOR:** The number of live births, by place of residence

**DENOMINATOR:** The total population, by place of residence

**HEALTHY PEOPLE 2000 OBJECTIVE:**  
None

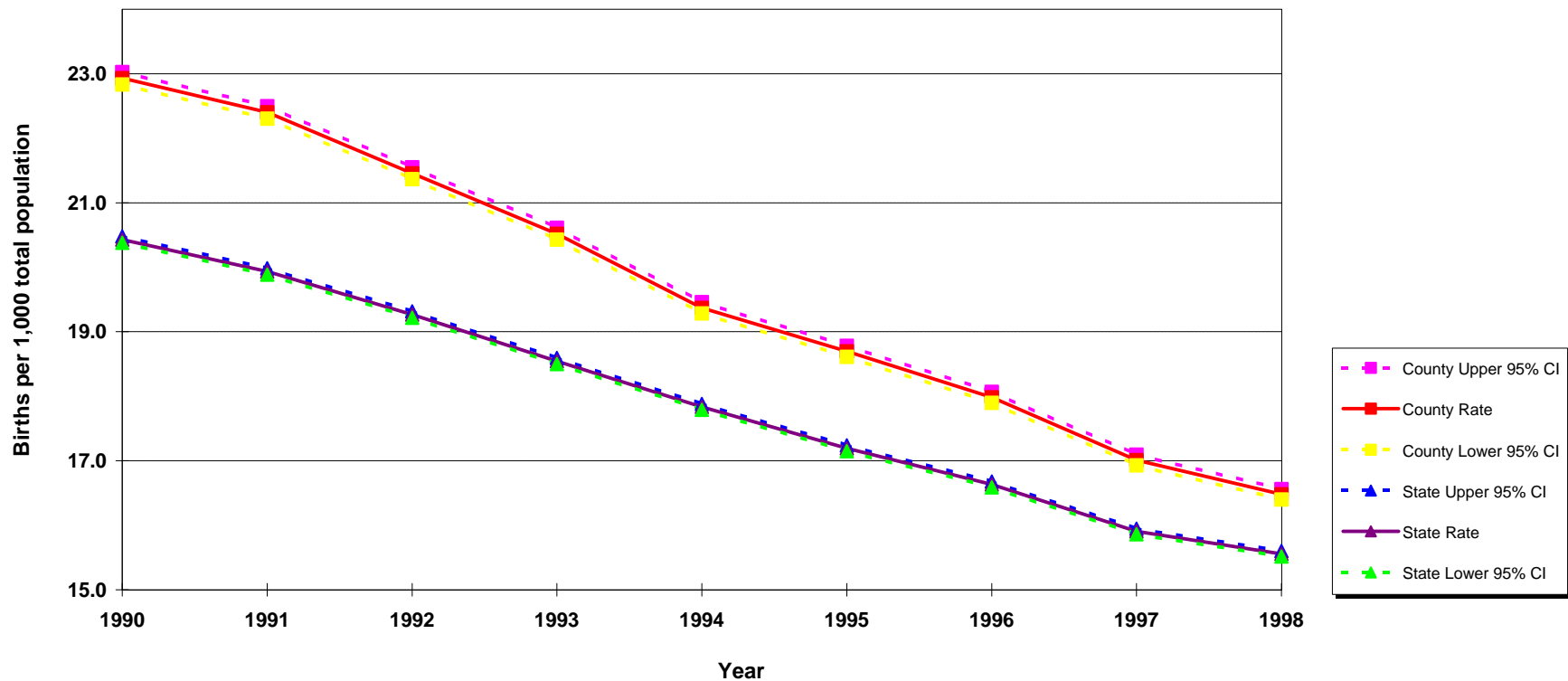
**RISK FACTORS:** Not applicable

	California				LA County			
	Total Births		95% Confidence Interval		Total Births		95% Confidence Interval	
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1990	611,666	20.4	20.4	20.5	204,124	22.9	22.8	23.0
1991	609,228	19.9	19.9	20.0	202,737	22.4	22.3	22.5
1992	600,838	19.3	19.2	19.3	197,415	21.5	21.4	21.6
1993	584,483	18.5	18.5	18.6	189,706	20.5	20.4	20.6
1994	567,034	17.8	17.8	17.9	180,394	19.4	19.3	19.5
1995	551,226	17.2	17.1	17.2	174,862	18.7	18.6	18.8
1996	538,628	16.6	16.6	16.7	168,973	18.0	17.9	18.1
1997	524,174	15.9	15.9	15.9	162,036	17.0	16.9	17.1
1998	521,265	15.6	15.5	15.6	158,604	16.5	16.4	16.6

DENOMINATOR: Total Population	
California	LA County
29,942,397	8,901,987
30,563,276	9,049,677
31,186,559	9,200,070
31,515,753	9,244,741
31,790,557	9,312,189
32,062,912	9,352,192
32,383,811	9,396,389
32,956,588	9,524,767
33,506,406	9,623,420

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

### Birth Rate per 1,000 Total Population California vs. Los Angeles County, 1990 - 1998



**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics  
 Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Distribution of births by race/ethnicity, 1997

**DEFINITION:** The proportion of total live births for selected race/ethnic groups

**NUMERATOR:** Number of live births, by race/ethnicity, by place of residence, in a calendar year

**DENOMINATOR:** Total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**  
None

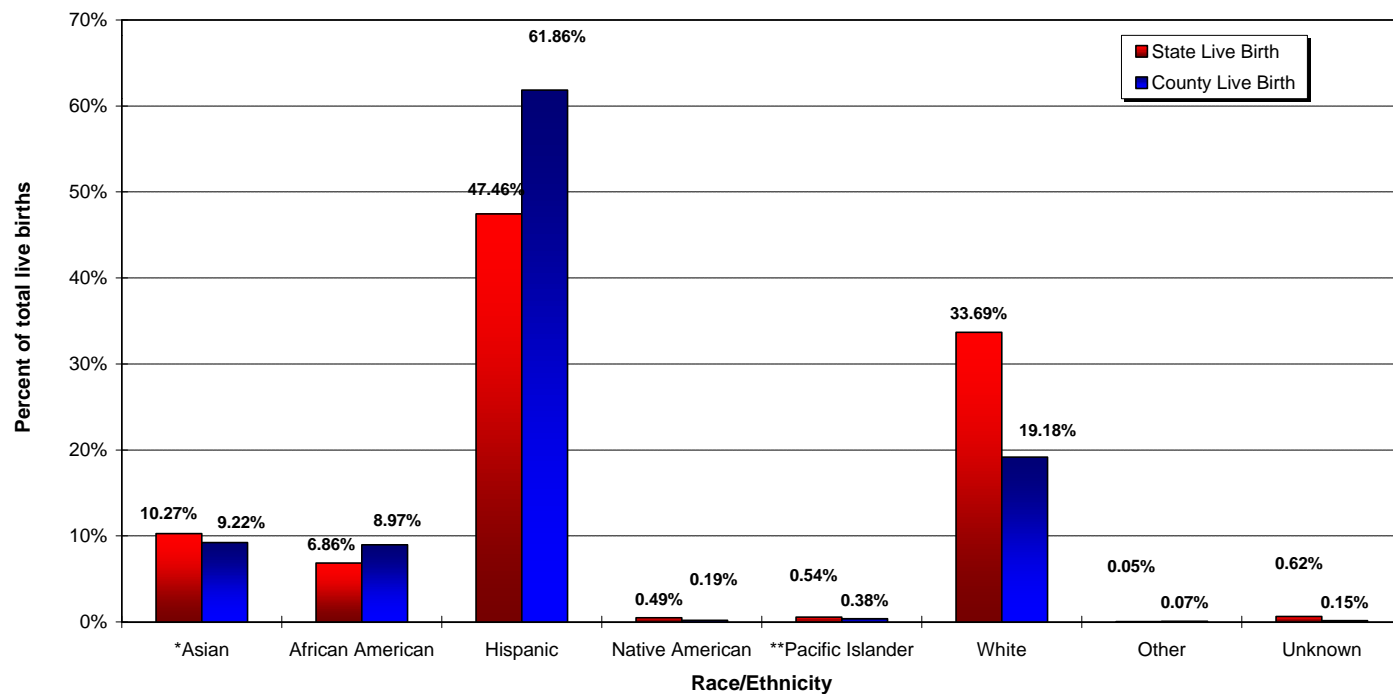
**RISK FACTORS:** Not applicable

	1997 California				1997 LA County			
	Live Births		95% Confidence Interval		Live Births		95% Confidence Interval	
Race/Ethnicity	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
<b>TOTAL</b>	524,174	100.00%	100.00%	100.00%	162,036	100.00%	100.00%	100.00%
Asian	53,855	10.27%	10.19%	10.36%	14,943	9.22%	9.08%	9.36%
African American	35,957	6.86%	6.79%	6.93%	14,530	8.97%	8.83%	9.11%
Hispanic	248,795	47.46%	47.33%	47.60%	100,228	61.86%	61.62%	62.09%
Native Am.	2,587	0.49%	0.47%	0.51%	304	0.19%	0.17%	0.21%
Pacific Islander	2,818	0.54%	0.52%	0.56%	611	0.38%	0.35%	0.41%
White	176,598	33.69%	33.56%	33.82%	31,072	19.18%	18.98%	19.37%
Other	287	0.05%	0.05%	0.06%	107	0.07%	0.05%	0.08%
Unknown	3,261	0.62%	0.60%	0.64%	241	0.15%	0.13%	0.17%

Live Births 1997	
DENOMINATOR: Total Live Births	
California	LA County
524,174	162,036
524,174	162,036
524,174	162,036
524,174	162,036
524,174	162,036
524,174	162,036
524,174	162,036
524,174	162,036
524,174	162,036

**Source:** 1997 birth records from California Department of Health Services, Center for Health Statistics

**Percent of Live Births by Mother's Race/Ethnicity  
California vs. Los Angeles County, 1997**



**Note:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

\*\* Filipino are combined into Asian category after 1994.

**Source:** 1997 birth records from California Department of Health Services, Center for Health Statistics



## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Distribution of births by race/ethnicity, 1998

**DEFINITION:** The proportion of total live births for selected race/ethnic groups

**NUMERATOR:** Number of live births, by race/ethnicity, by place of residence, in a calendar year

**DENOMINATOR:** Total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**  
None

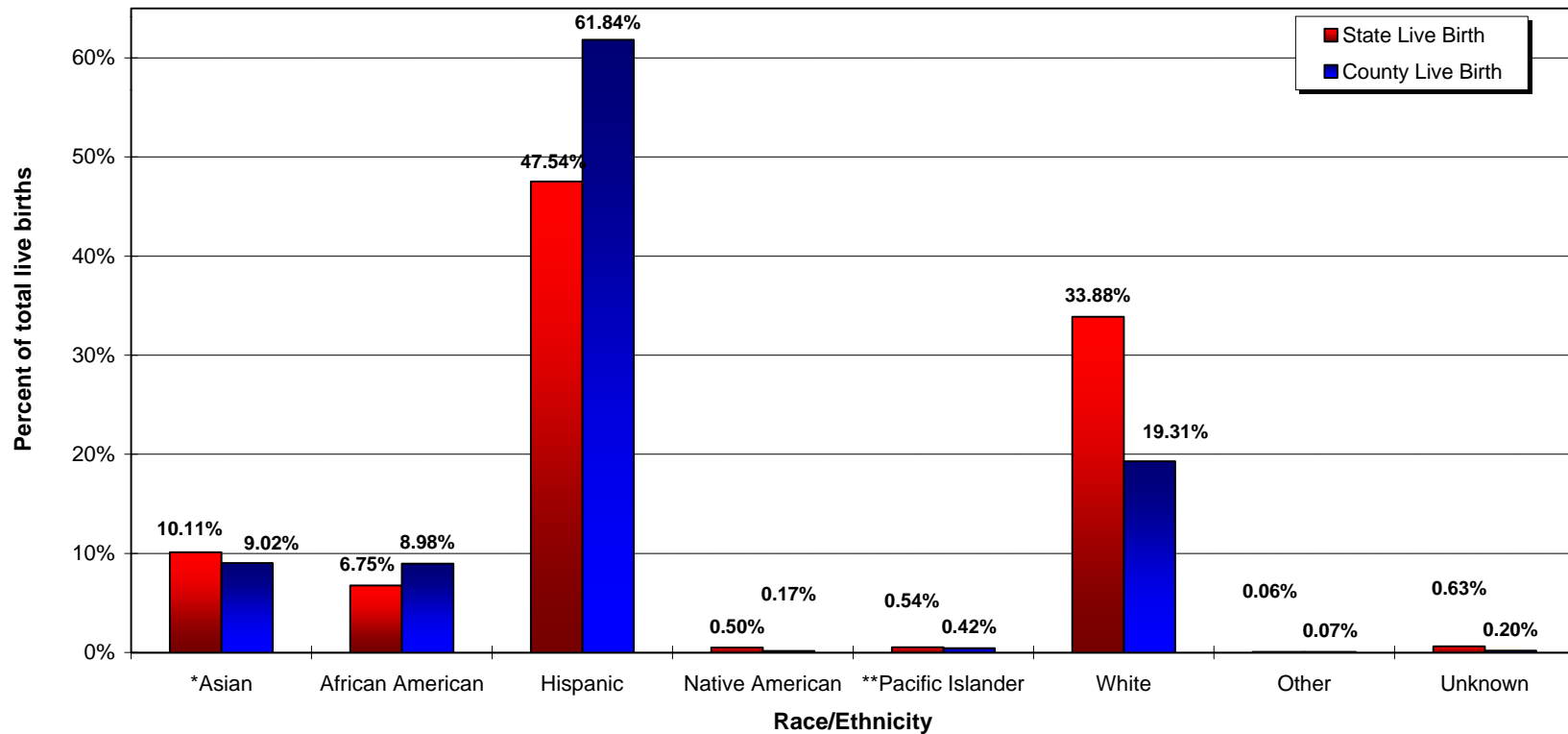
**RISK FACTORS:** Not applicable

	1998 California				1998 LA County			
	Live Births		95% Confidence Interval		Live Births		95% Confidence Interval	
Race/ Ethnicity	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper
<b>TOTAL</b>	521,265	100.00%	100.00%	100.00%	158,604	100.00%	100.00%	100.00%
Asian	52,718	10.11%	10.03%	10.20%	14,304	9.02%	8.88%	9.16%
African American	35,200	6.75%	6.68%	6.82%	14,246	8.98%	8.84%	9.12%
Hispanic	247,796	47.54%	47.40%	47.67%	98,074	61.84%	61.60%	62.07%
Native Am.	2,587	0.50%	0.48%	0.52%	262	0.17%	0.15%	0.19%
Pacific Islander	2,818	0.54%	0.52%	0.56%	664	0.42%	0.39%	0.45%
White	176,598	33.88%	33.75%	34.01%	30,621	19.31%	19.11%	19.50%
Other	287	0.06%	0.05%	0.06%	115	0.07%	0.06%	0.09%
Unknown	3,261	0.63%	0.60%	0.65%	318	0.20%	0.18%	0.22%

Live Births 1998	
DENOMINATOR: Total Live Births	
California	LA County
521,265	158,604
521,265	158,604
521,265	158,604
521,265	158,604
521,265	158,604
521,265	158,604
521,265	158,604
521,265	158,604
521,265	158,604

**Source:** 1998 birth records from California Department of Health Services, Center for Health Statistics

### Percent of Live Births by Mother's Race/Ethnicity California vs. Los Angeles County, 1998



**Note:** \*\* Filipino are combined into Asian category after 1994.

**Source:** 1998 birth records from California Department of Health Services, Center for Health Statistics

## TITLE V INDICATOR TEMPLATES

<b>INDICATOR:</b>	<b>Trends in distribution of births by race/ethnicity</b>
<b>DEFINITION:</b>	The percent of total live births for selected race/ethnic groups over time
<b>NUMERATOR:</b>	Number of live births, by race/ethnicity, by place of residence, in a calendar year
<b>DENOMINATOR:</b>	Total number of live births, by place of residence, in a calendar year
<b>HEALTHY PEOPLE 2000 OBJECTIVE:</b>	None
<b>RISK FACTORS:</b>	Not applicable

Year	California Births														
	Asian*		African American		Hispanic		Native American		Filipino/Pacific Islander**		White		Other/Unknown		Total Births
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#
1990	41,269	6.75%	48,137	7.87%	245,314	40.11%	2,632	0.43%	14,786	2.42%	256,555	41.94%	2,973	0.49%	611,666
1991	42,343	6.95%	46,780	7.68%	257,827	42.32%	2,643	0.43%	14,874	2.44%	242,562	39.81%	2,199	0.36%	609,228
1992	43,322	7.21%	45,514	7.58%	263,339	43.83%	2,681	0.45%	15,217	2.53%	228,431	38.02%	2,334	0.39%	600,838
1993	42,432	7.26%	43,861	7.50%	262,065	44.84%	2,747	0.47%	15,006	2.57%	215,885	36.94%	2,487	0.43%	584,483
1994	42,758	7.54%	41,481	7.32%	257,463	45.41%	2,694	0.48%	15,052	2.65%	204,756	36.11%	2,830	0.50%	567,034
1995	54,475	9.88%	39,166	7.11%	253,726	46.03%	2,735	0.50%	2,763	0.50%	196,277	35.61%	2,084	0.38%	551,226
1996	54,164	10.06%	37,029	6.87%	254,674	47.28%	2,642	0.49%	2,778	0.52%	185,255	34.39%	2,088	0.39%	538,628
1997	53,855	10.27%	35,957	6.86%	248,795	47.46%	2,582	0.49%	2,779	0.53%	177,347	33.83%	2,859	0.55%	524,174
1998	52,718	10.11%	35,200	6.75%	247,796	47.54%	2,587	0.50%	2,818	0.54%	176,598	33.88%	3,548	0.68%	521,265

**Notes:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

\*\* Filipino are combined into Asian category after 1994.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

**TITLE V INDICATOR TEMPLATES**

**INDICATOR: Trends in distribution of births by race/ethnicity (continued)**

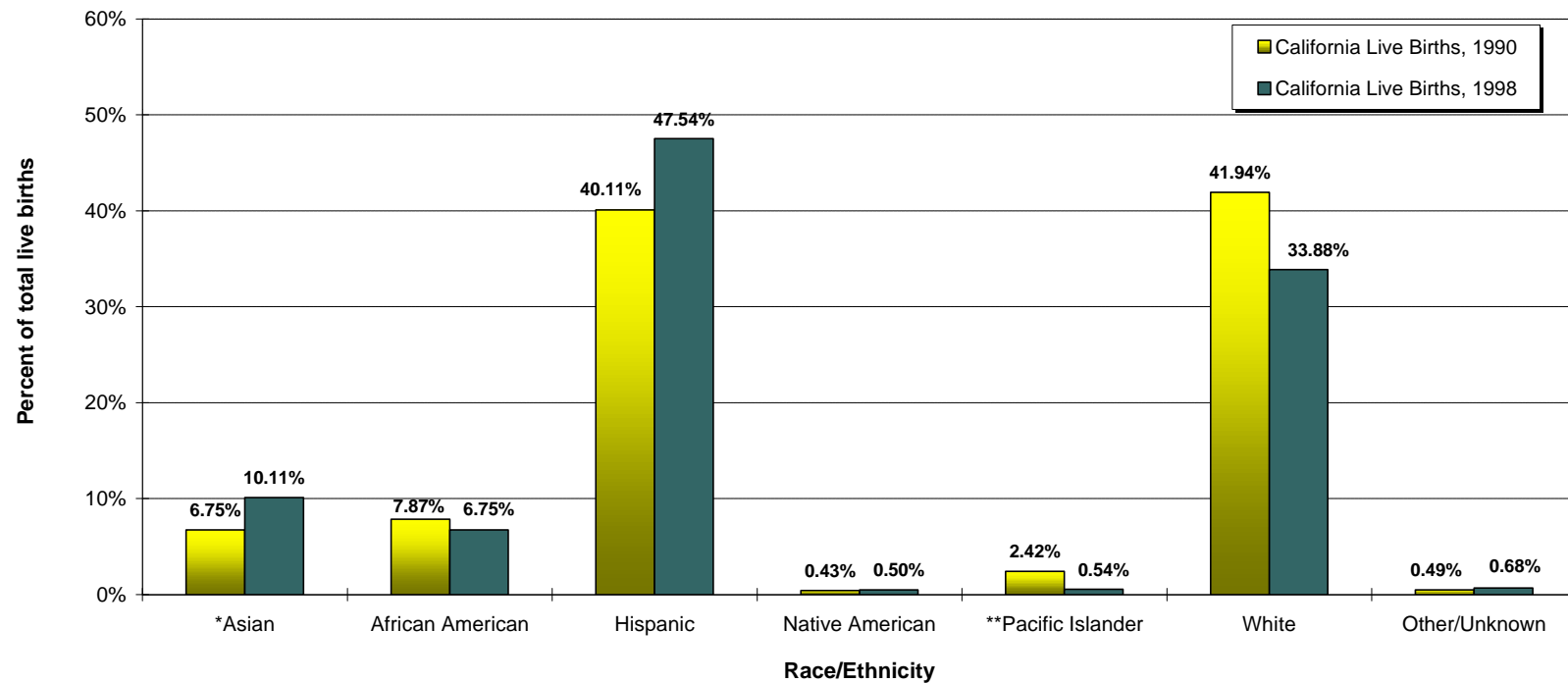
	LA County Births														
	Asian*		African American		Hispanic		Native American		Filipino/Pacific Islander**		White		Other/Unknown		Total Births
Year	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#
1990	12,701	6.22%	21,823	10.69%	113,786	55.74%	410	0.20%	4,408	2.16%	50,633	24.81%	363	0.18%	204,124
1991	12,657	6.24%	20,779	10.25%	117,432	57.92%	338	0.17%	4,456	2.20%	46,763	23.07%	312	0.15%	202,737
1992	12,938	6.55%	19,463	9.86%	116,592	59.06%	309	0.16%	4,370	2.21%	43,365	21.97%	378	0.19%	197,415
1993	12,300	6.48%	18,698	9.86%	113,451	59.80%	346	0.18%	4,296	2.26%	40,197	21.19%	418	0.22%	189,706
1994	12,127	6.72%	17,282	9.58%	109,242	60.56%	308	0.17%	4,208	2.33%	36,886	20.45%	341	0.19%	180,394
1995	15,334	8.77%	16,148	9.23%	107,228	61.32%	341	0.20%	685	0.39%	34,872	19.94%	254	0.15%	174,862
1996	15,225	9.01%	15,184	8.99%	105,175	62.24%	313	0.19%	625	0.37%	32,151	19.03%	300	0.18%	168,973
1997	14,943	9.22%	14,530	8.97%	100,228	61.86%	304	0.19%	611	0.38%	31,072	19.18%	348	0.21%	162,036
1998	14,304	9.02%	14,246	8.98%	98,074	61.84%	262	0.17%	664	0.42%	30,621	19.31%	433	0.27%	158,604

**Notes:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

\*\* Filipino are combined into Asian category after 1994.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

### Percent of Live Births by Mother's Race/Ethnicity California, 1990 vs. 1998

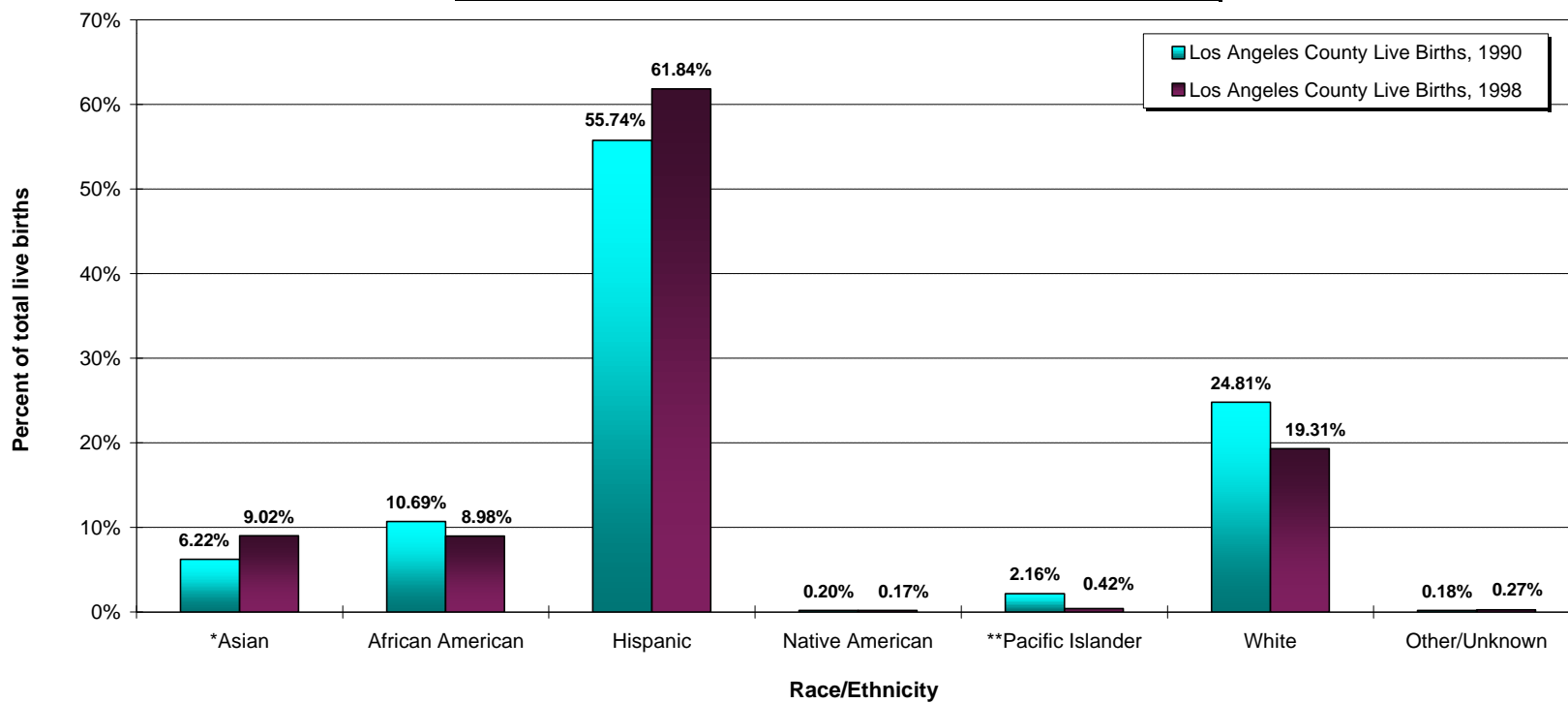


**Note:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

\*\* Filipino are combined into Asian category after 1994.

**Source:** 1998 birth records from California Department of Health Services, Center for Health Statistics

### Percent of Live Births by Mother's Race/Ethnicity Los Angeles County, 1990 vs. 1998

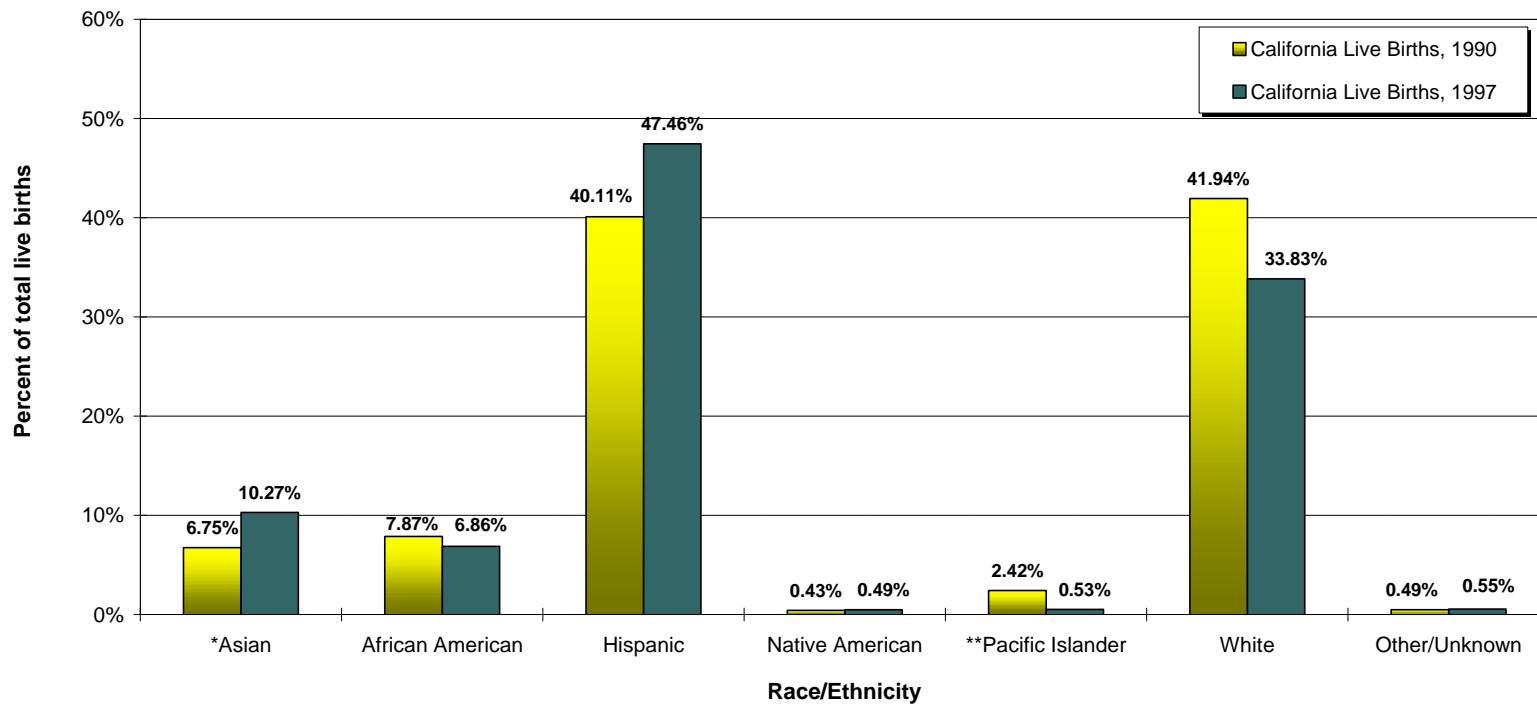


**Note:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

\*\* Filipino are combined into Asian category after 1994.

**Source:** 1998 birth records from California Department of Health Services, Center for Health Statistics

### Percent of Live Births by Mother's Race/Ethnicity California, 1990 vs. 1997

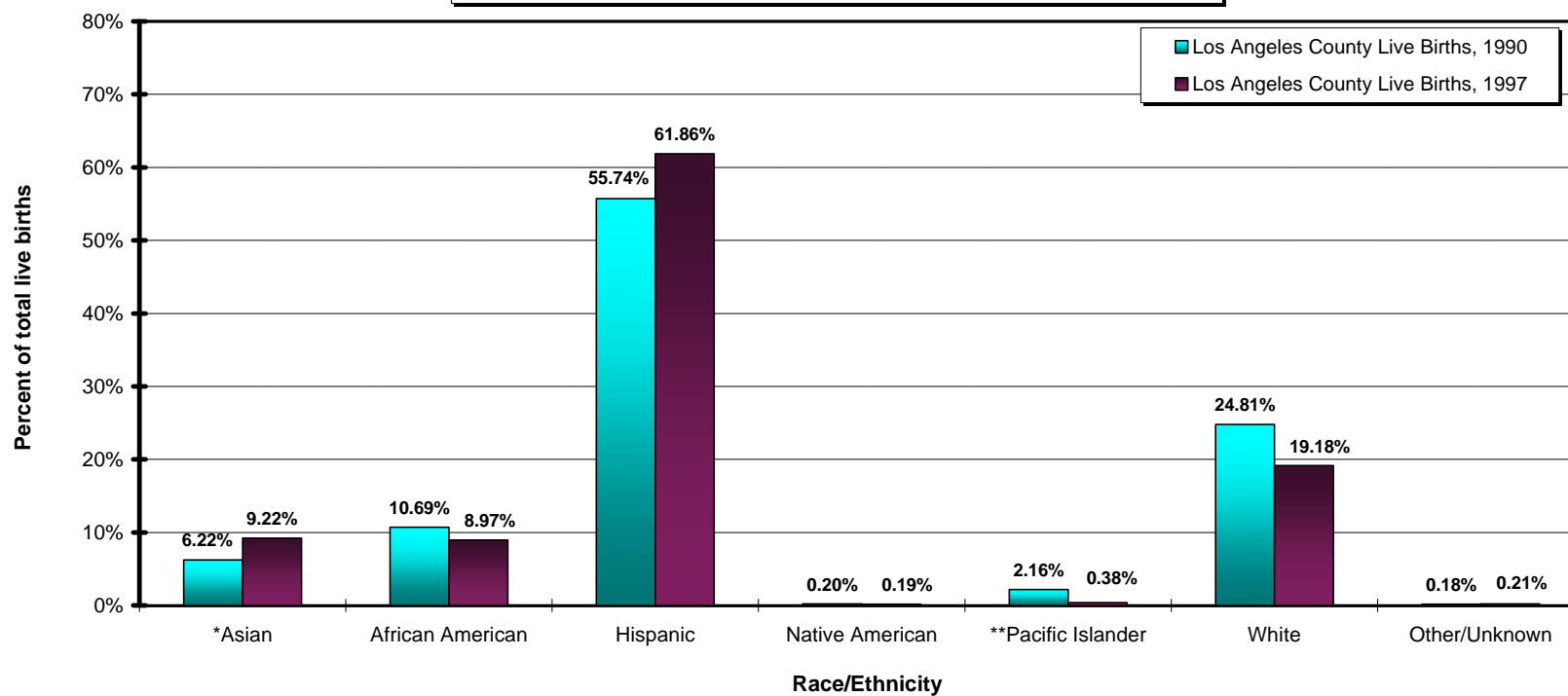


**Note:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

\*\* Filipino are combined into Asian category after 1994.

**Source:** 1997 birth records from California Department of Health Services, Center for Health Statistics

**Percent of Live Births by Mother's Race/Ethnicity  
Los Angeles County, 1990 vs. 1997**



**Note:** \* Filipino are combined into Pacific Islander category between 1990 and 1994

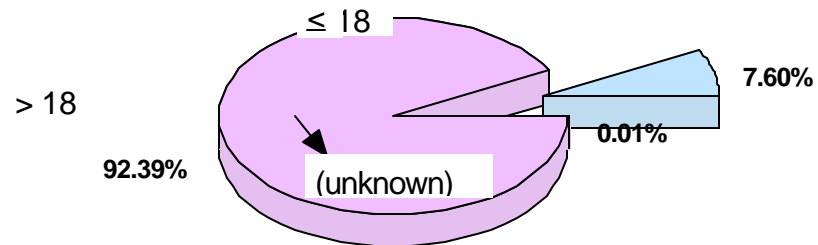
\*\* Filipino are combined into Asian category after 1994.

**Source:** 1997 birth records from California Department of Health Services, Center for Health Statistics



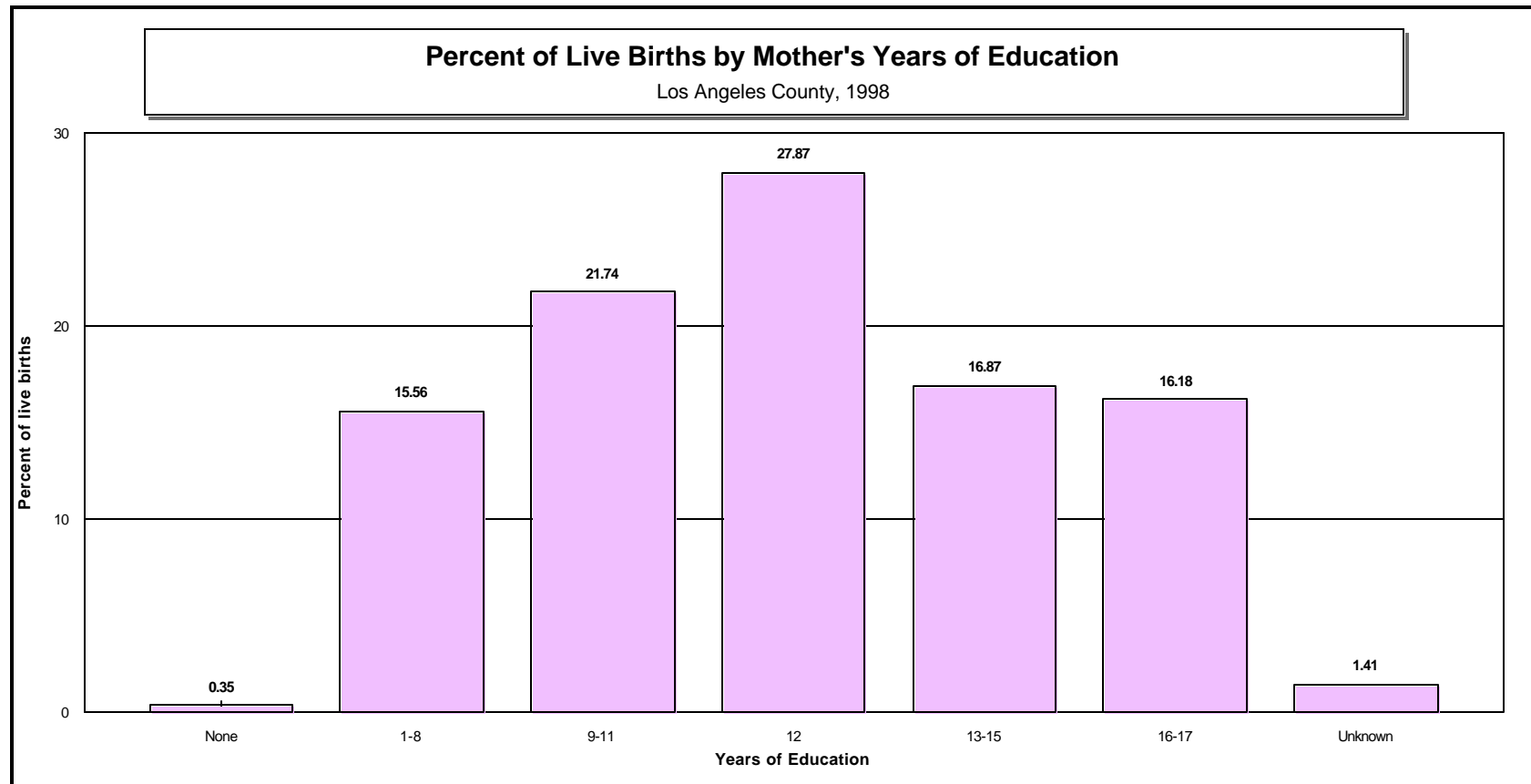
## Percent of Live Births by Mother's Age

Los Angeles County, 1998



Mother's Age					
≤ 18		> 18		Unknown	
Number	Percent	Number	Percent	Number	Percent
12,051	7.60	146,533	92.39	20	0.01

Note: Total live births in Los Angeles County, 1998 = 158,604  
 Source: 1998 birth records from the California Department of Health Services,  
 Center for Health Statistics



Years of Education													
None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
555	0.35	24,684	15.56	34,480	21.74	44,208	27.87	26,764	16.87	25,670	16.18	2,243	1.41

Note: Total live births in Los Angeles County, 1998 = 158,604

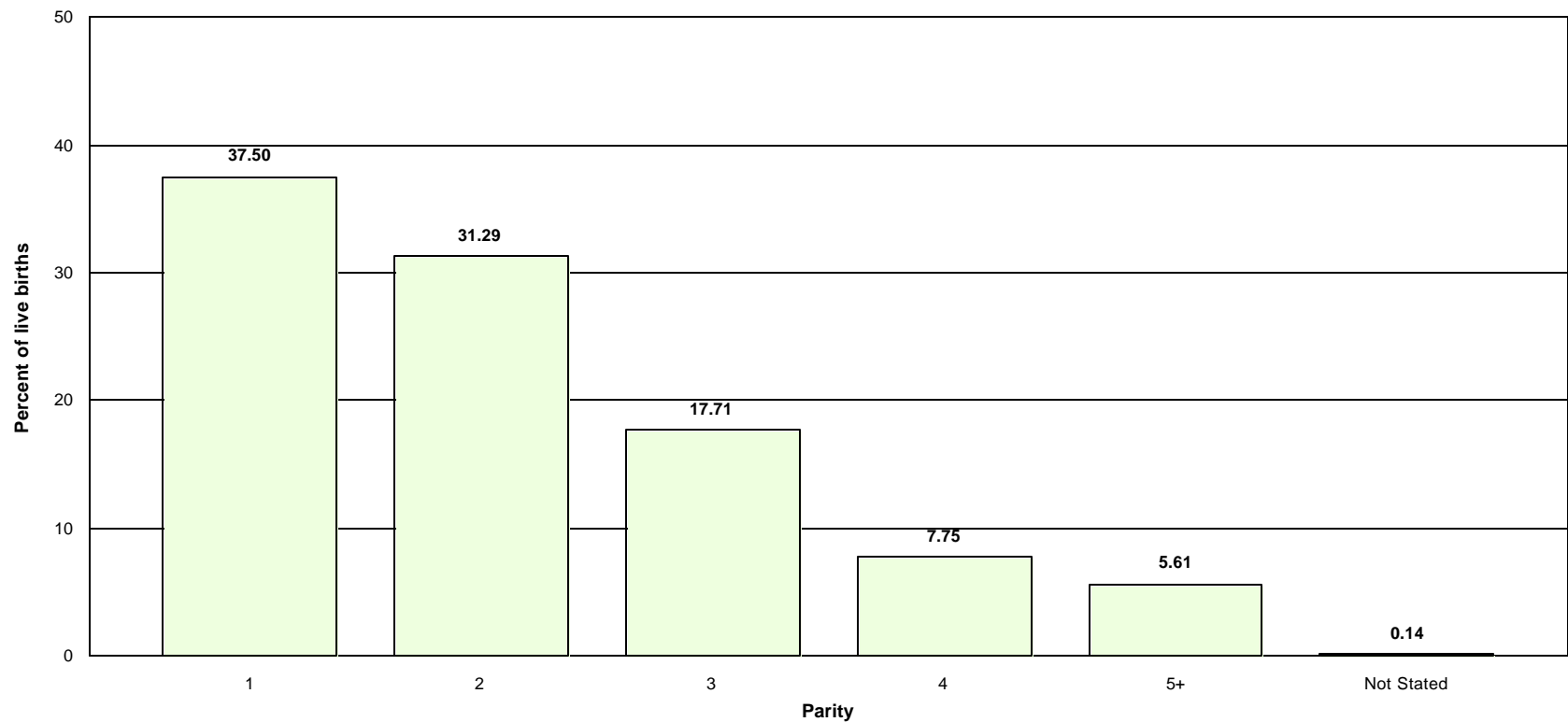
Year '17' = mothers who attained college degree or above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Percent of Live Births by Parity

Los Angeles County, 1998



Parity											
1		2		3		4		5+		Not Stated	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
59,482	37.50	49,632	31.29	28,084	17.71	12,290	7.75	8,897	5.61	217	0.14

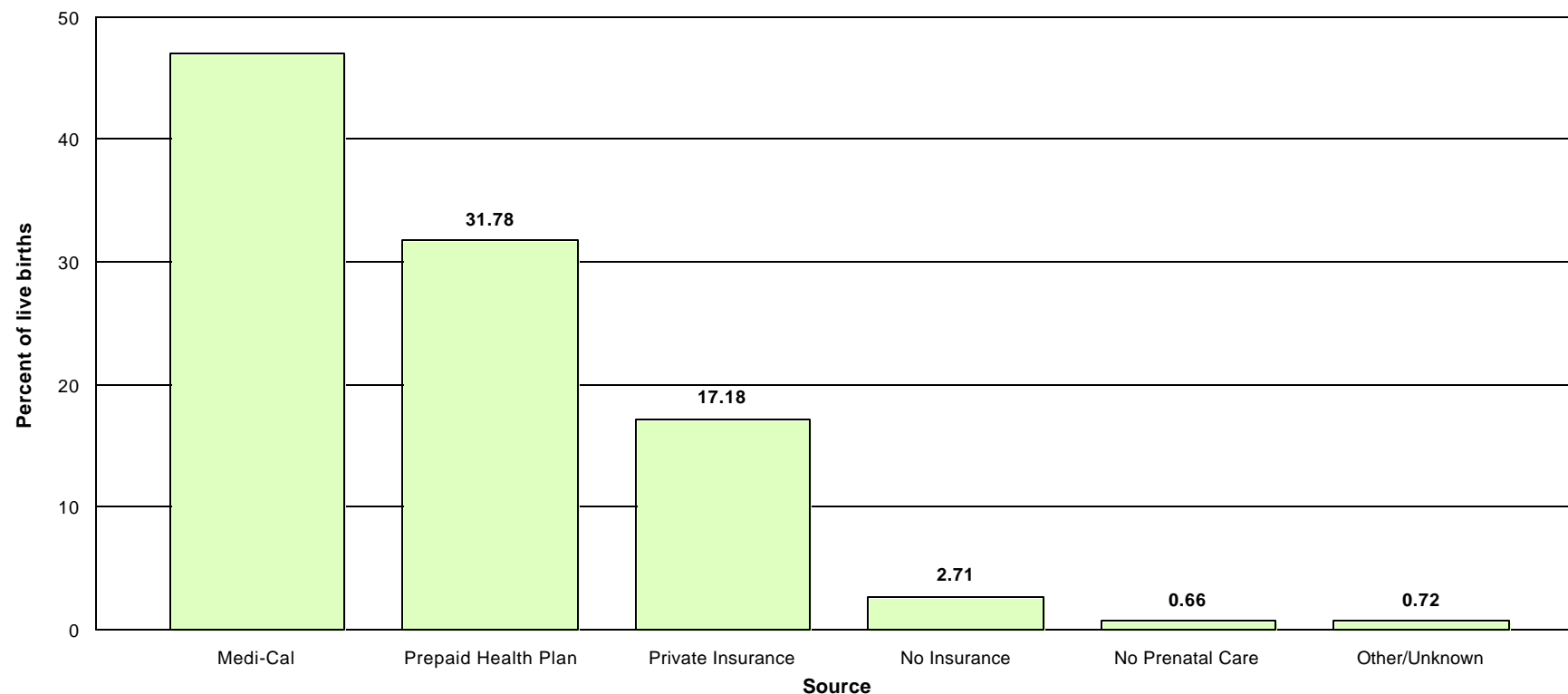
Note: Total live births in Los Angeles County, 1998 = 158,604

Parity = number of pregnancies resulting in live births to a woman

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Percent of Live Births by Mother's Source of Payment for Prenatal Care

Los Angeles County, 1998



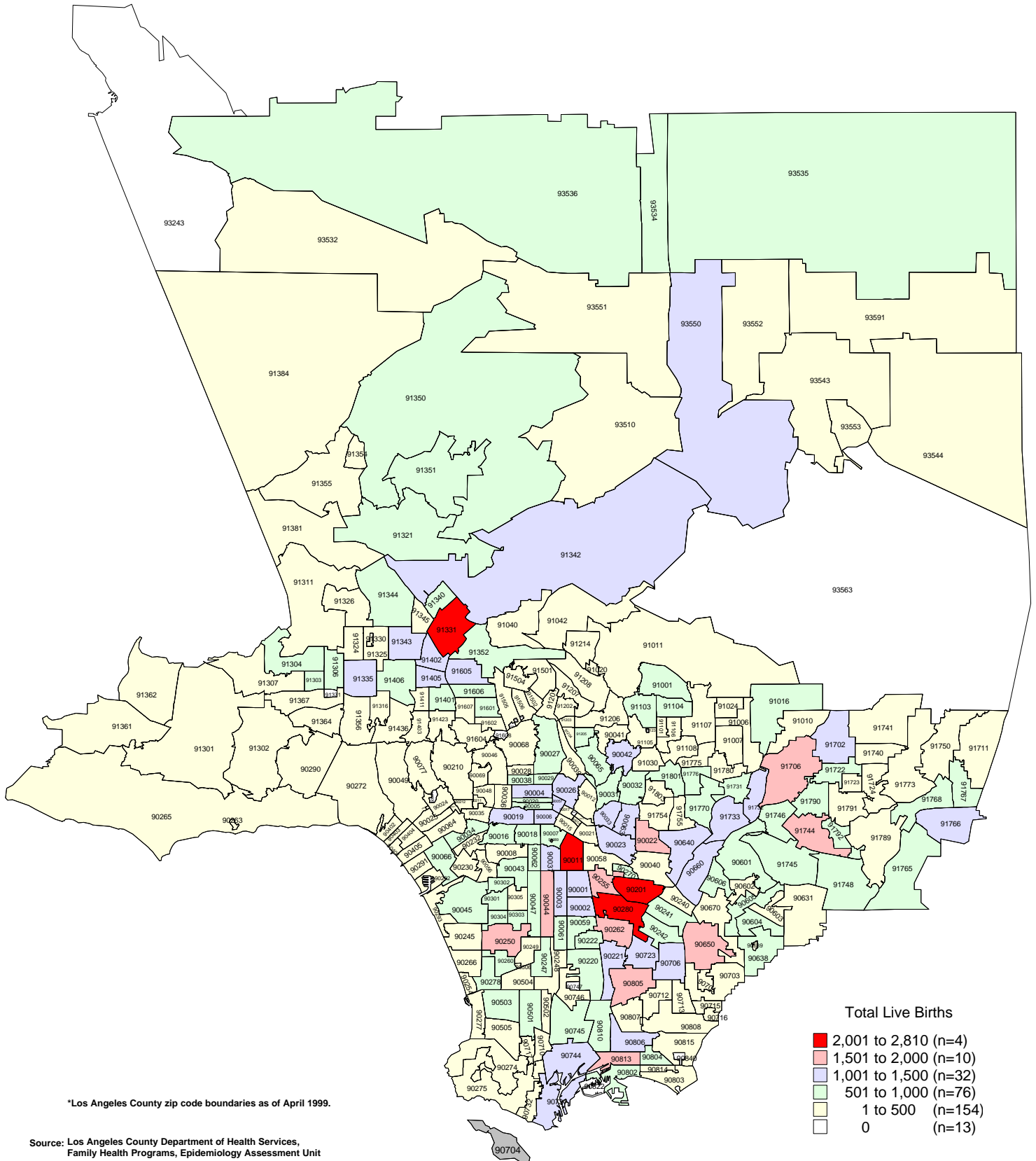
Source of Payment											
Medi-Cal		Prepaid Health Plan		Private Insurance		No Insurance		No Prenatal Care		Other/Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
74,468	46.95	50,411	31.78	27,248	17.18	4,291	2.71	1,046	0.66	1,140	0.72

Note: Total live births in Los Angeles County, 1998 = 158,604

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# Number of Live Births by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

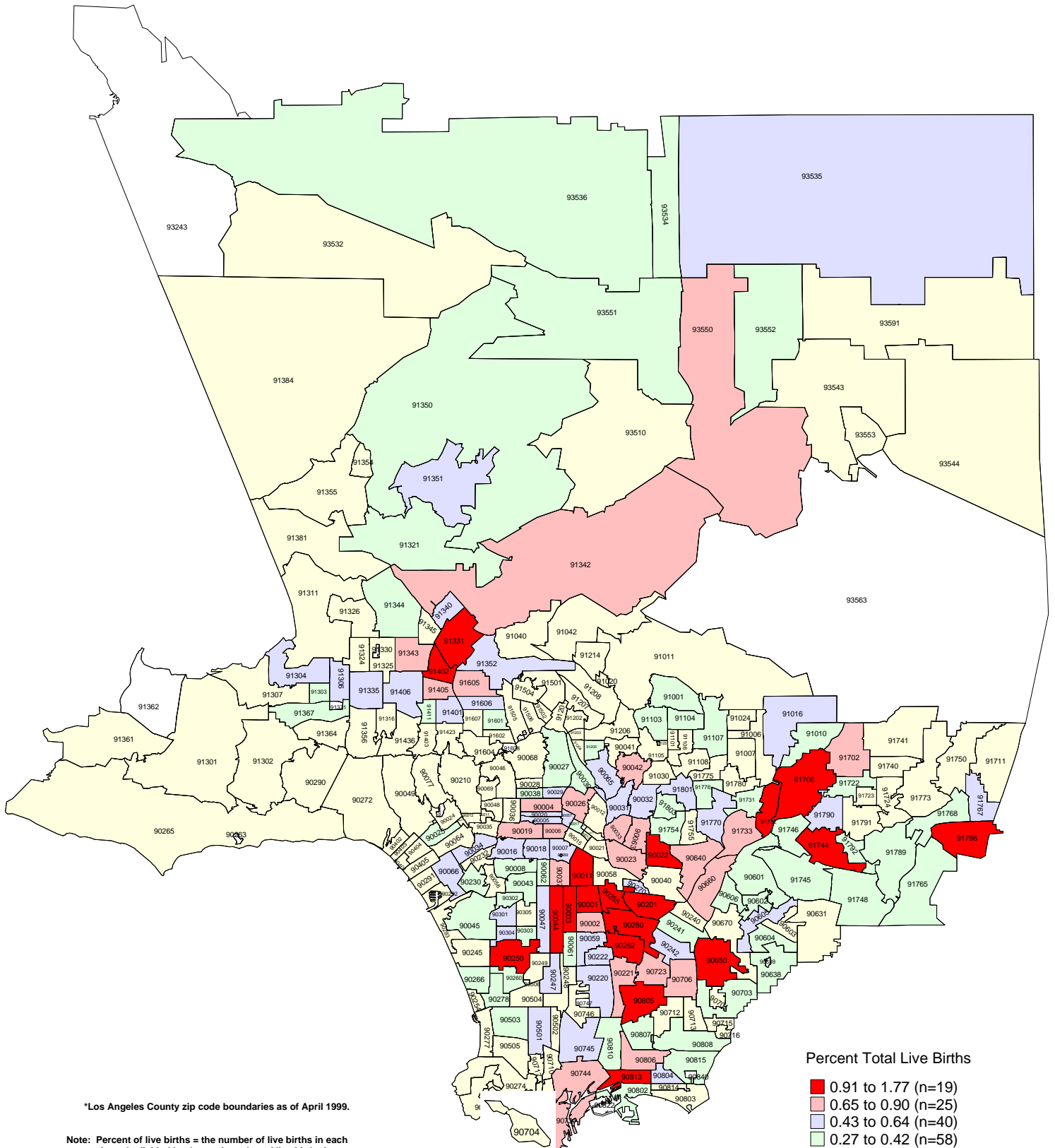
Source: Los Angeles County Department of Health Services,  
Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services,  
Center for Health Statistics

n = total number of zip codes in range

# Percent of Live Births by Zip Code\*

Los Angeles County, 1998



n = total number of zip codes in range

**Low Birthweight**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Low birthweight

**DEFINITION:** The percent of live births weighing less than 2,500 grams

**NUMERATOR:** The number of live births weighing less than 2,500 grams, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce low birthweight to an incidence of no more than 5 percent of live births. (Baseline: 6.9 percent in 1987) (Objective 14.5)

**RISK FACTORS:**

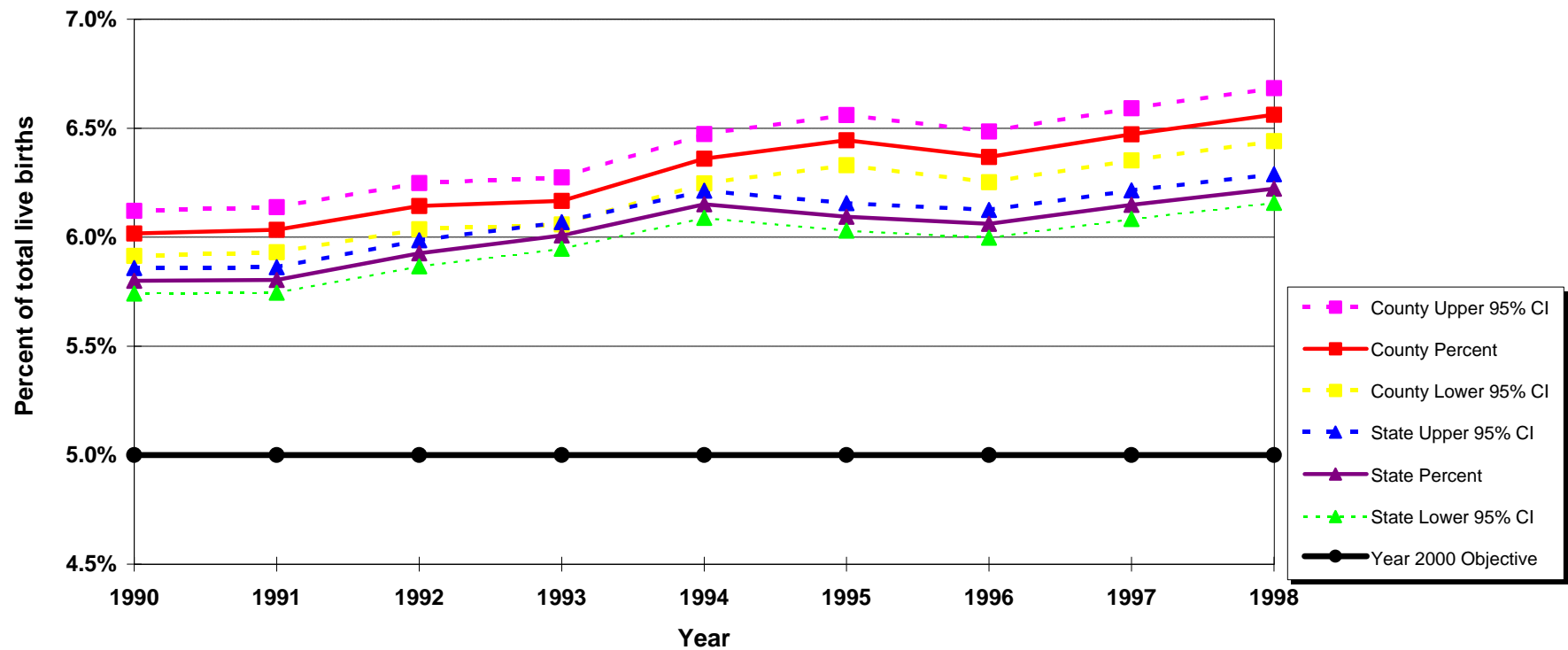
Young or old maternal age; low income; low maternal education level; race/ethnicity (African American, Puerto Rican, Southeast Asian); high parity; short interpregnancy interval; multiple gestation; unintended pregnancy; history of low birthweight; poor reproductive history; intrauterine growth retardation; preterm birth; prior preterm birth; late entry into prenatal care; lack of comprehensive prenatal care; low pre-pregnancy weight; tobacco use during pregnancy; alcohol/substance abuse during pregnancy; low pregnancy weight gain; placenta previa; premature rupture of the membrane; stress during pregnancy; strenuous exertion during pregnancy

	California				LA County				DENOMINATOR: Live Births	
	Low Birthweight		95% Confidence Interval		Low Birthweight		95% Confidence Interval			
Year	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	California	LA County
1990	35,474	5.80%	5.74%	5.86%	12,283	6.02%	5.91%	6.12%	611,666	204,124
1991	35,359	5.80%	5.75%	5.86%	12,234	6.03%	5.93%	6.14%	609,228	202,737
1992	35,608	5.93%	5.87%	5.99%	12,127	6.14%	6.04%	6.25%	600,838	197,415
1993	35,116	6.01%	5.95%	6.07%	11,698	6.17%	6.06%	6.27%	584,483	189,706
1994	34,876	6.15%	6.09%	6.21%	11,474	6.36%	6.25%	6.47%	567,034	180,394
1995	33,588	6.09%	6.03%	6.16%	11,270	6.45%	6.33%	6.56%	551,226	174,862
1996	32,649	6.06%	6.00%	6.13%	10,761	6.37%	6.25%	6.48%	538,628	168,973
1997	32,232	6.15%	6.08%	6.21%	10,487	6.47%	6.35%	6.59%	524,174	162,036
1998	32,438	6.22%	6.16%	6.29%	10,408	6.56%	6.44%	6.68%	521,265	158,604

**Source:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

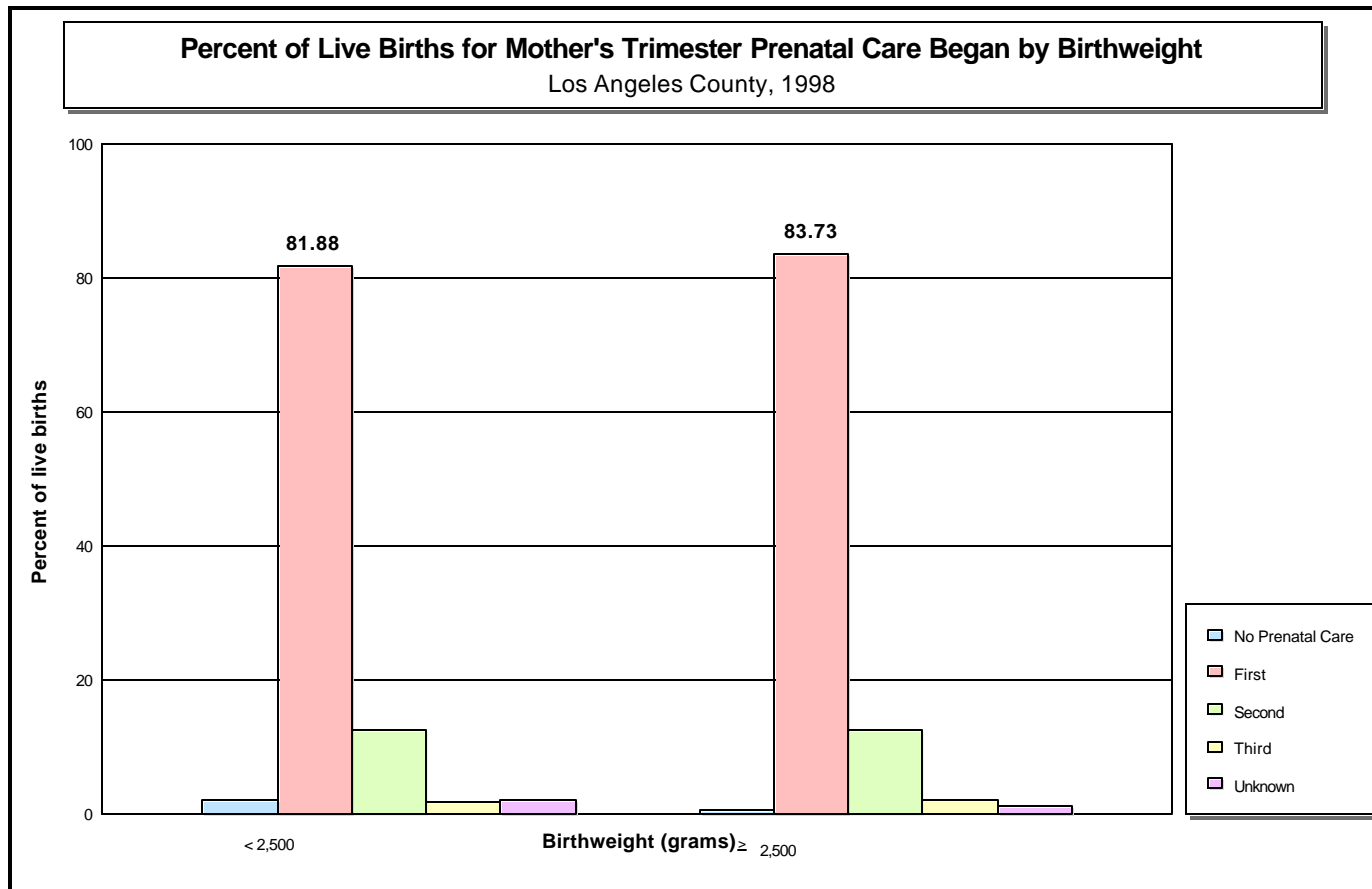


## Percent Low Birthweight California vs. Los Angeles County, 1990 - 1998



**Year 2000 Objective:** Reduce low birthweight to an incidence of no more than 5 percent of live births

**Source:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

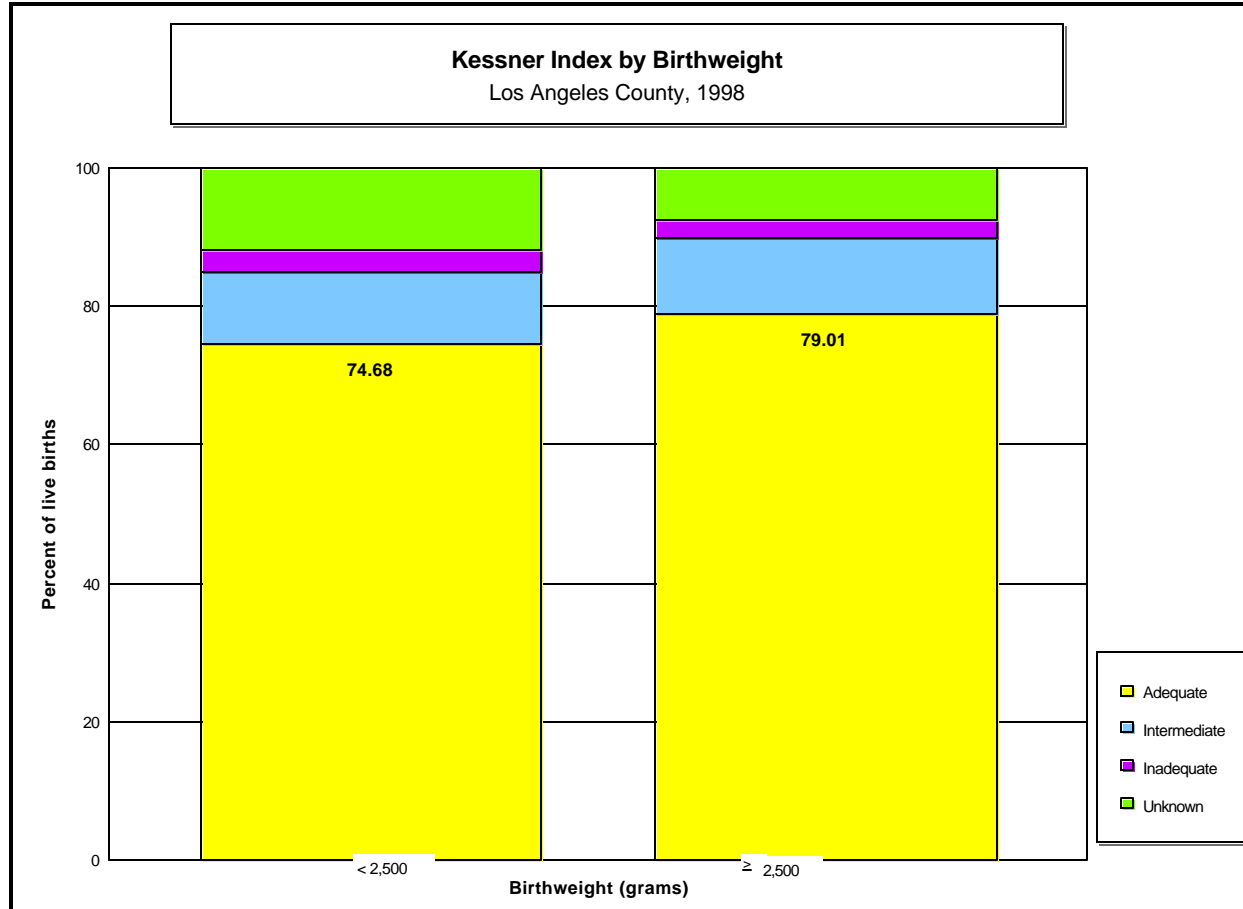


Live Births	Birthweight (grams)			
	< 2,500		≥ 2,500	
	Number	Percent	Number	Percent
No PNC	199	1.91	846	0.57
First	8,522	81.88	124,085	83.73
Second	1,295	12.44	18,295	12.35
Third	190	1.83	3,125	2.11
Unknown	202	1.94	1,843	1.24
Total	10,408	100.00	148,194	100.00

Note: PNC = 'Prenatal Care'

Live births with unknown birthweight were excluded from this analysis.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

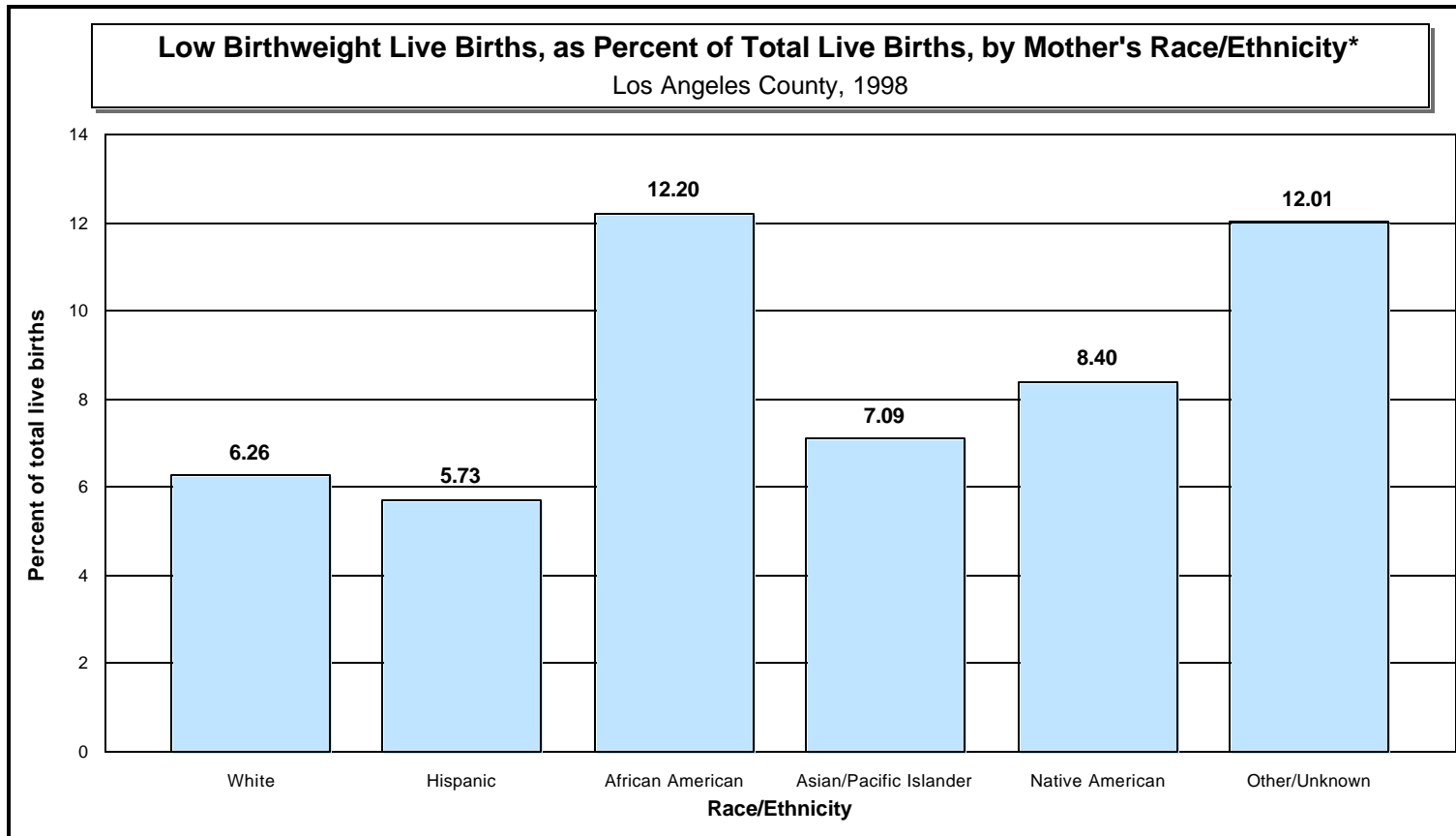


Live Births	Birthweight (grams)			
	< 2,500		≥ 2,500	
	Number	Percent	Number	Percent
Adequate	7,960	76.48	117,082	79.01
Intermediate	1,076	10.34	16,195	10.93
Inadequate	313	3.01	3,869	2.61
Unknown	1,059	10.17	11,048	7.46
Total	10,408	100.00	148,194	100.00

Note: The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Live births with unknown birthweight were excluded from this analysis.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



	Race/Ethnicity											
	White		Hispanic		African American		Asian**/Pacific Islander		Native American		Other/Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	1,918	6.26	5,617	5.73	1,738	12.20	1,061	7.09	22	8.40	52	12.01
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00

\* White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity.  
Hispanic includes any race category.

\*\* Filipino is included in Asian.

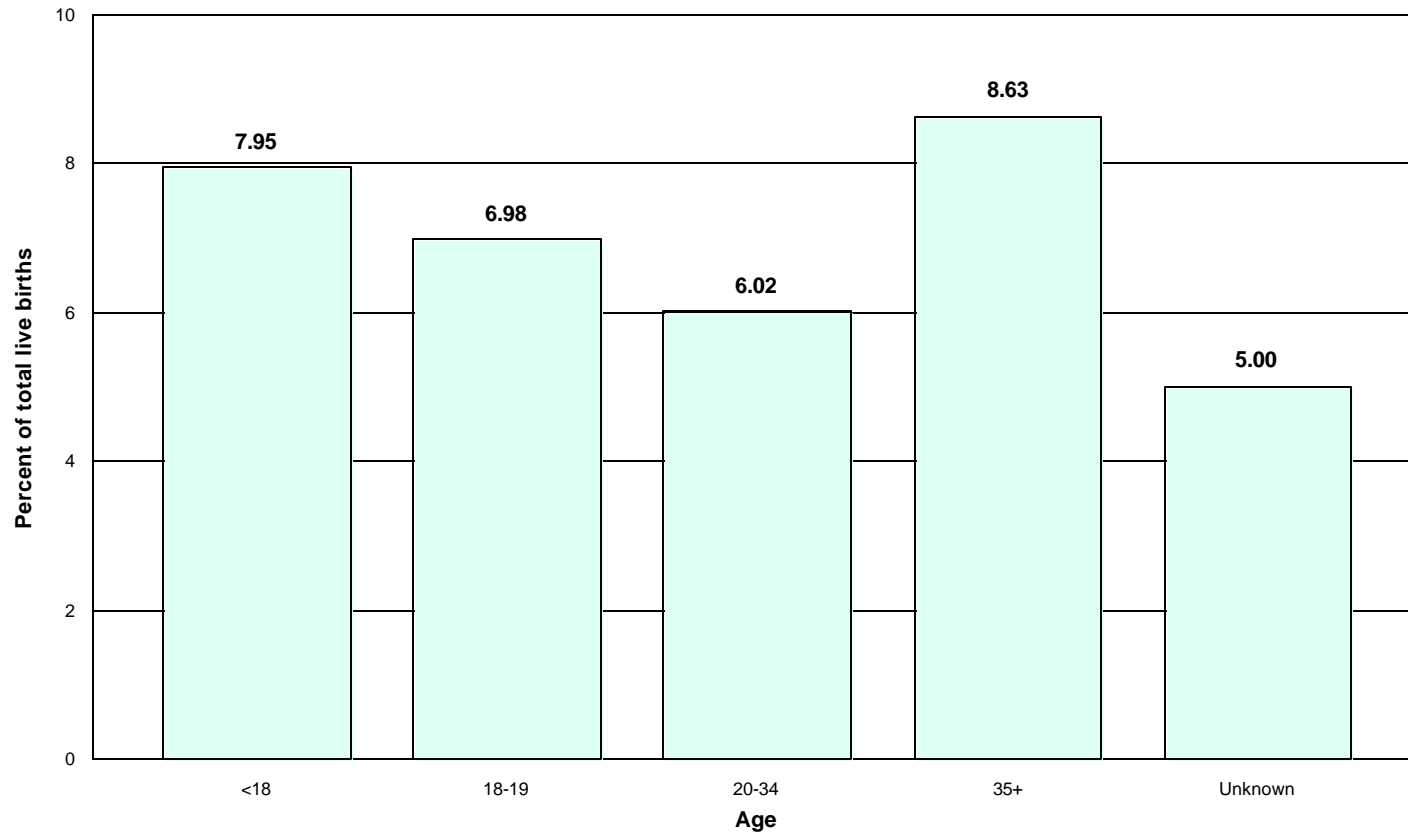
Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

### Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Age

Los Angeles County, 1998



	Age									
	< 18		18 - 19		20 - 34		35+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	565	7.95	778	6.98	7,008	6.02	2,056	8.63	1	5.00
Total	7,107	100.00	11,153	100.00	116,491	100.00	23,833	100.00	20	100.00

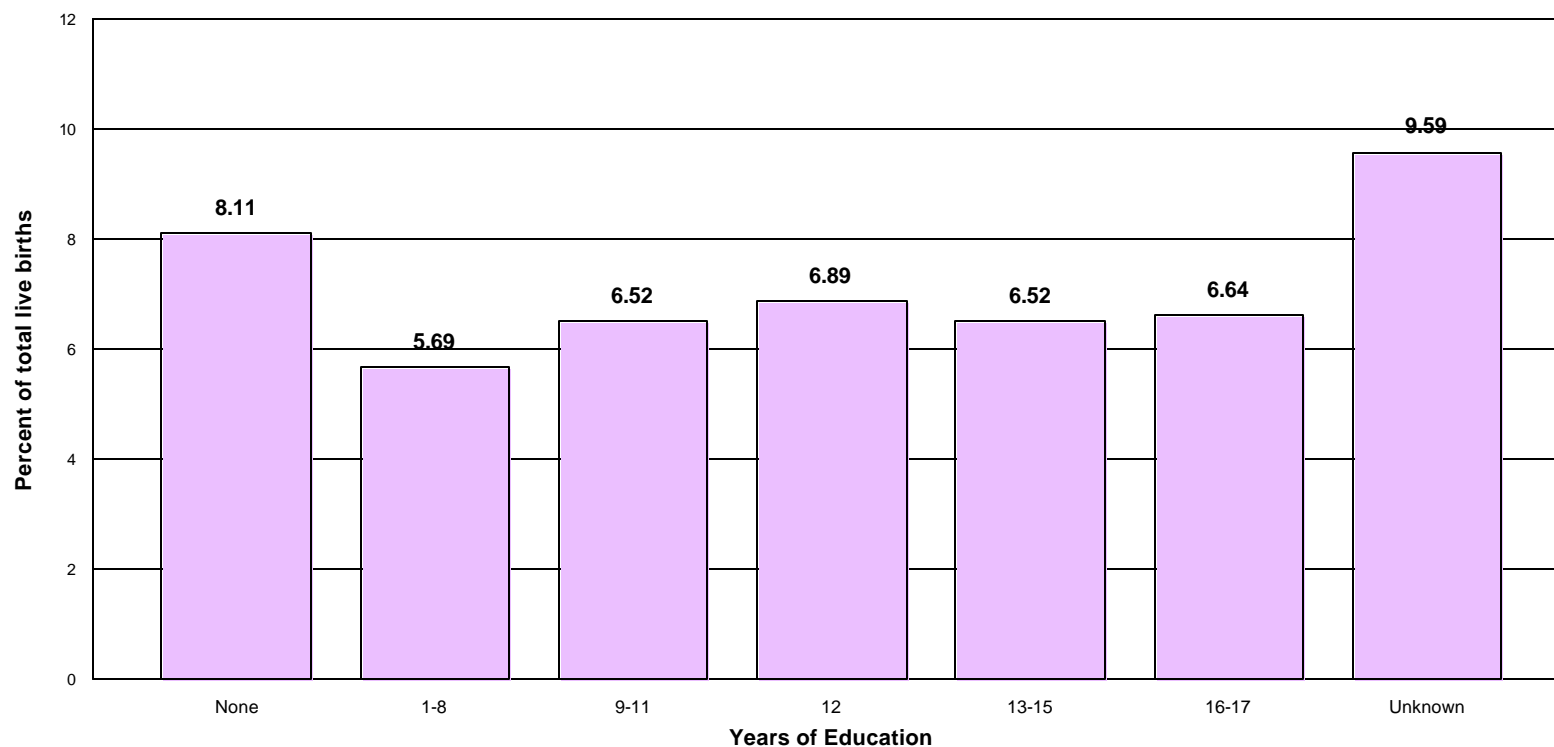
Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Years of Education

Los Angeles County, 1998



	Years of Education													
	None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	45	8.11	1,405	5.69	2,249	6.52	3,044	6.89	1,746	6.52	1,704	6.64	215	9.59
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

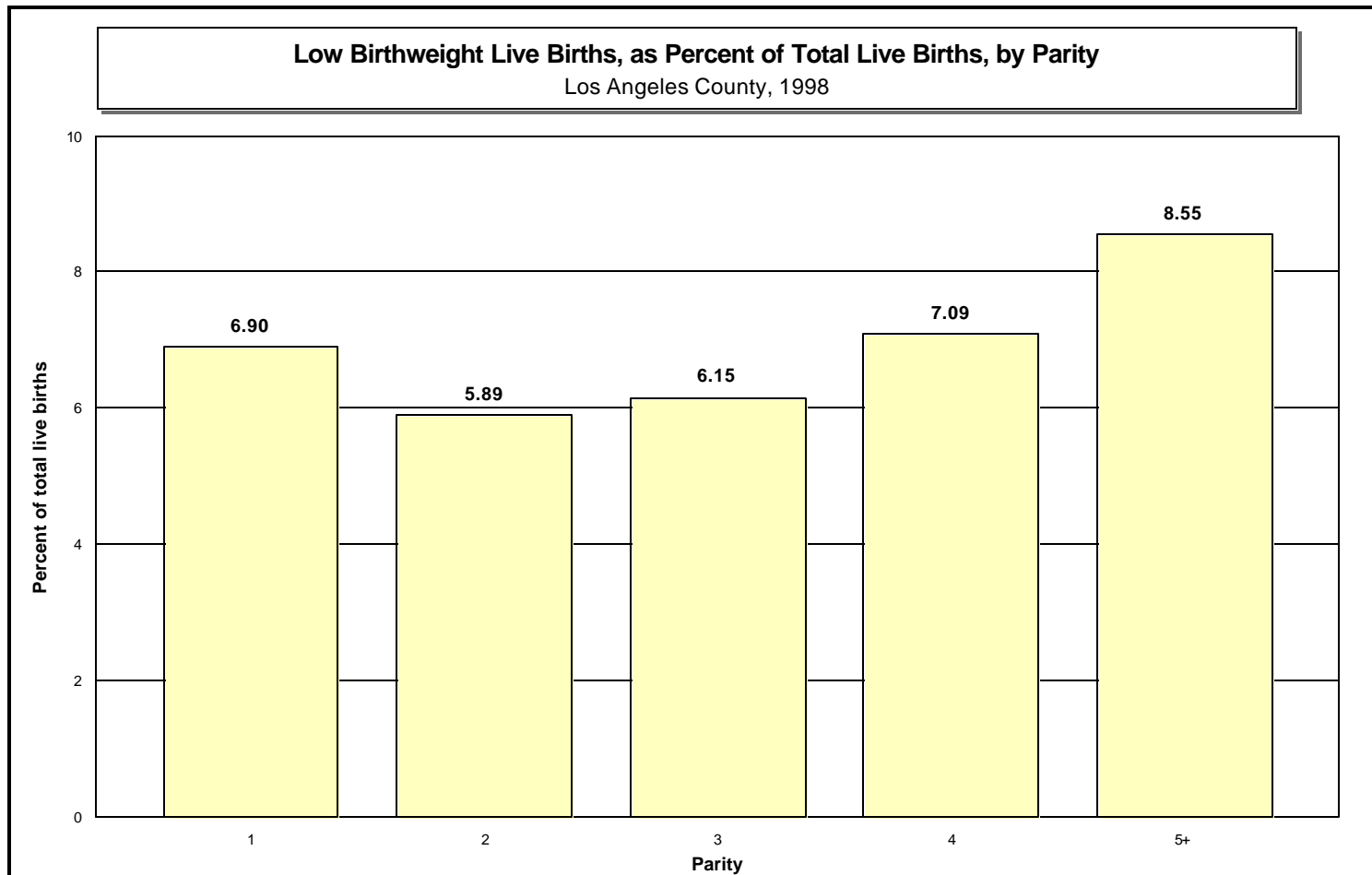
Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth.

Year '17' = mothers who attained college degree or above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



	Parity											
	1		2		3		4		5+		Not Stated	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	4,104	6.90	2,922	5.89	1,726	6.15	871	7.09	761	8.55	24	11.06
Total	59,482	100.00	49,634	100.00	28,084	100.00	12,290	100.00	8,897	100.00	217	100.00

Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

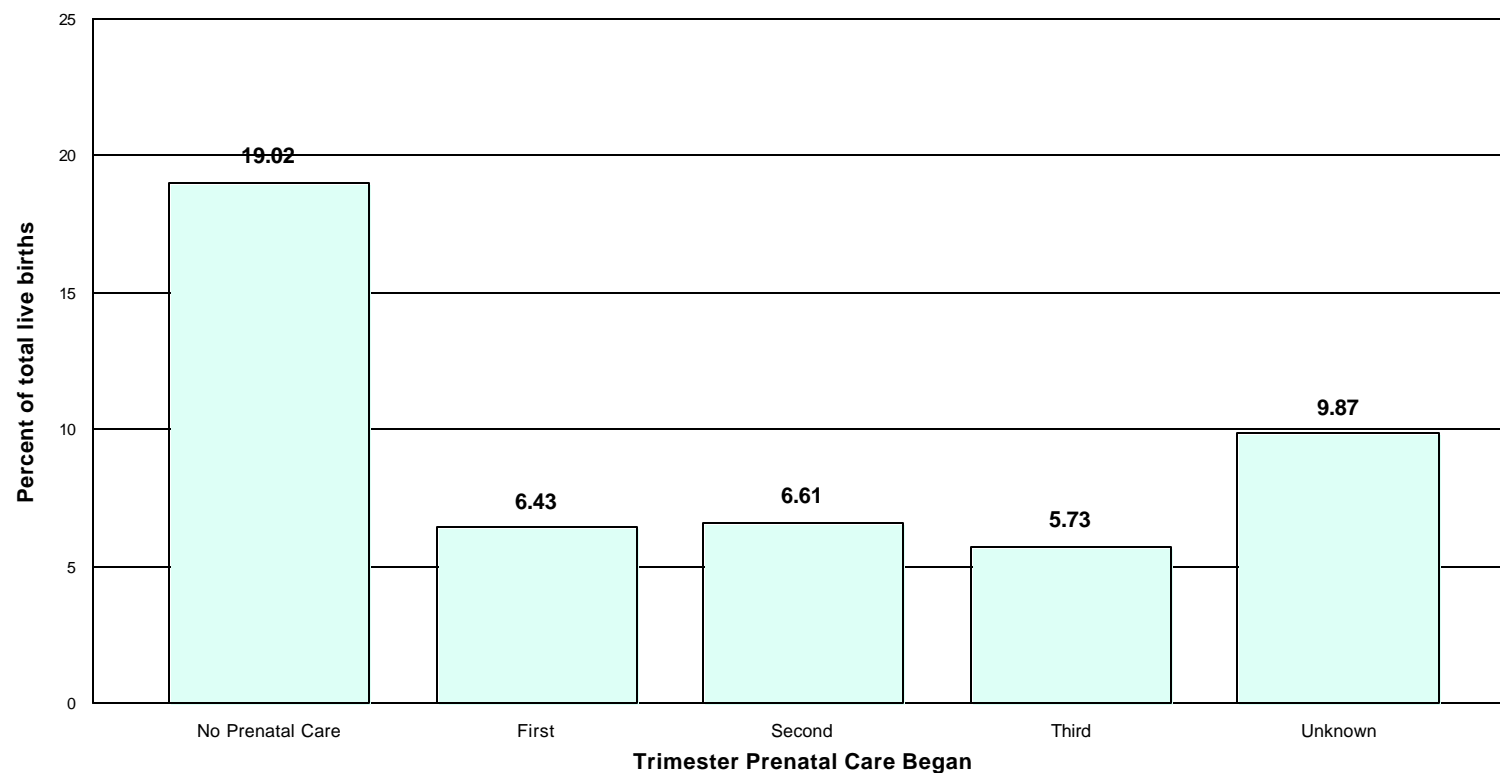
Note: Parity = number of pregnancies resulting in live births to a woman

Low birthweight is defined as weight less than 2,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# **Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Trimester Prenatal Care Began**

Los Angeles County, 1998



Trimester Prenatal Care Began										
Live Births	No Prenatal Care		First		Second		Third		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	199	19.02	8,522	6.43	1,295	6.61	190	5.73	202	9.87
Total	1,046	100.00	132,607	100.00	19,590	100.00	3,315	100.00	2,046	100.00

Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

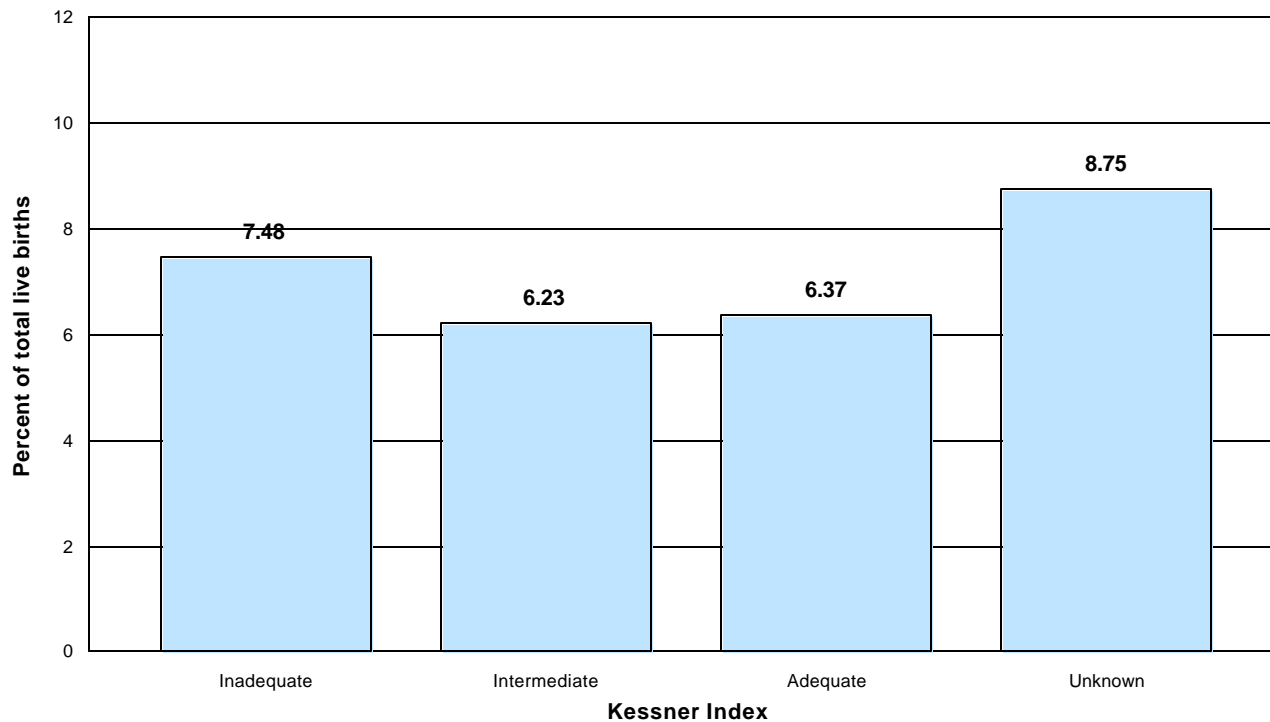
Low birthweight is defined as weight less than 2,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



### Low Birthweight Live Births, as Percent of Total Live Births, by Kessner Index

Los Angeles County, 1998



Live Births	Kessner Index							
	Inadequate		Intermediate		Adequate		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	313	7.48	1,076	6.23	7,960	6.37	1,059	8.75
Total	4,182	100.00	17,271	100.00	125,042	100.00	12,109	100.00

Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

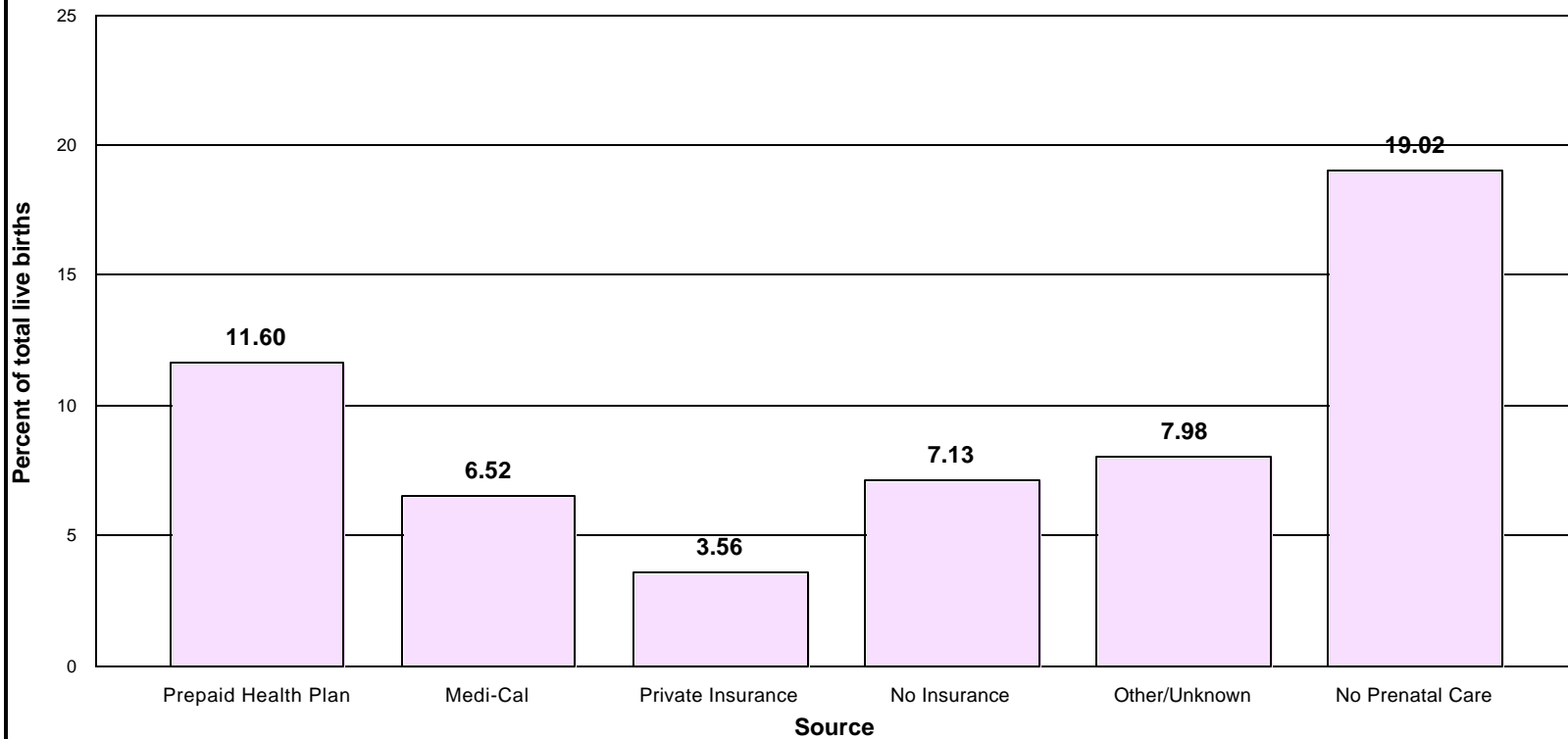
Note: Low birthweight is defined as weight less than 2,500 grams at birth.

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Low Birthweight Live Births, as Percent of Total Live Births, by Payment Source for Prenatal Care

Los Angeles County, 1998



Source of Payment												
Prepaid Health Plan		Medi-Cal		Private Insurance		No Insurance		Other/Unknown		No Prenatal Care		
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<2,500 grams	3,162	11.60	4,857	6.52	1,793	3.56	306	7.13	91	7.98	199	19.02
Total	27,248	100.00	74,468	100.00	50,411	100.00	4,291	100.00	1,140	100.00	1,046	100.00

Year 2000 Objective: Reduce low birthweight to an incidence of no more than 5 percent of live births.

Note: Low birthweight is defined as weight less than 2,500 grams at birth

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Very low birthweight

**DEFINITION:** The percent of live births weighing less than 1,500 grams

**NUMERATOR:** The number of live births weighing less than 1,500 grams, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce very low birthweight to an incidence of no more than 1 percent of live births. (Baseline: 1.2 percent in 1987) (Objective 14.5)

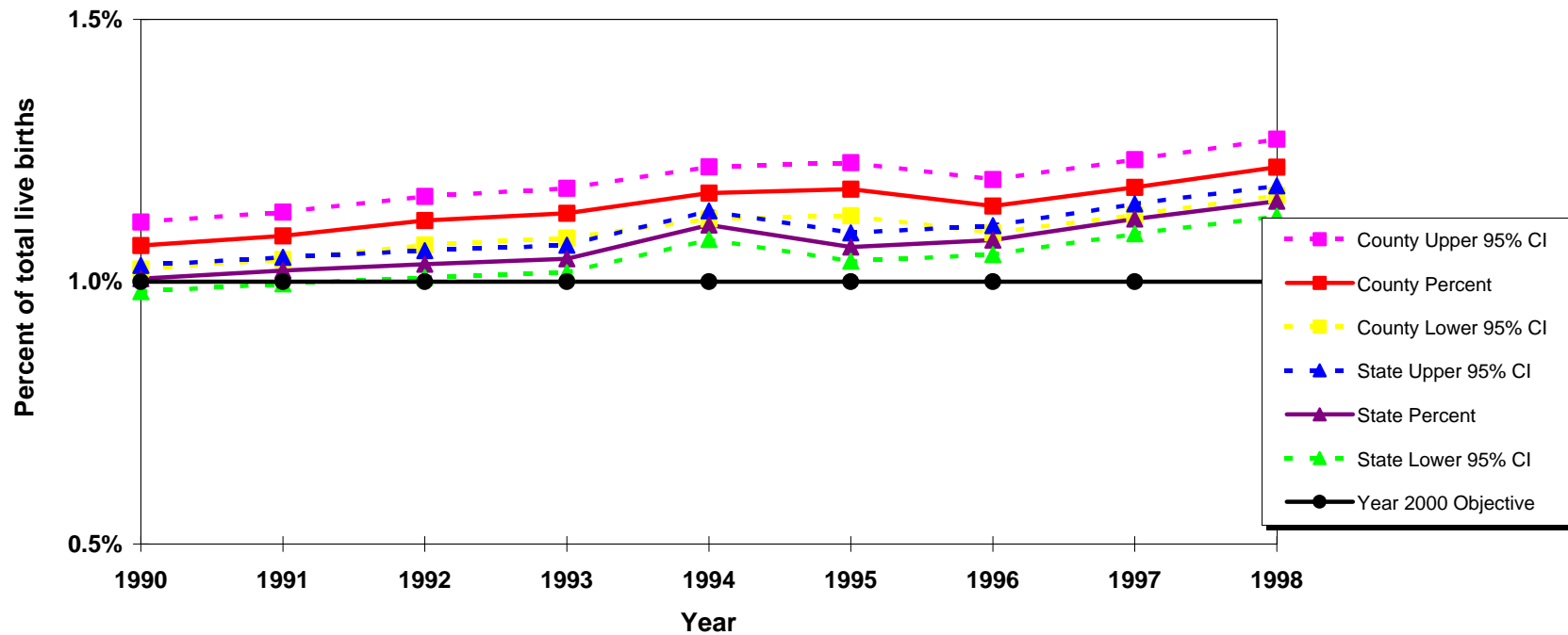
**RISK FACTORS:** Preterm birth; prior preterm birth; race/ethnicity (African American, Puerto Rican); substance use/abuse (e.g. illicit drug use)

See also risk factors for low birthweight.

	California				LA County				DENOMINATOR: Live Births		
	Very Low Birthweight		95% Confidence Interval		Very Low Birthweight		95% Confidence Interval				
Year	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper		California	LA County
1990	6,152	1.01%	0.98%	1.03%	2,182	1.07%	1.02%	1.11%		611,666	204,124
1991	6,223	1.02%	1.00%	1.05%	2,205	1.09%	1.04%	1.13%		609,228	202,737
1992	6,209	1.03%	1.01%	1.06%	2,204	1.12%	1.07%	1.16%		600,838	197,415
1993	6,099	1.04%	1.02%	1.07%	2,145	1.13%	1.08%	1.18%		584,483	189,706
1994	6,282	1.11%	1.08%	1.14%	2,109	1.17%	1.12%	1.22%		567,034	180,394
1995	5,877	1.07%	1.04%	1.09%	2,057	1.18%	1.13%	1.23%		551,226	174,862
1996	5,812	1.08%	1.05%	1.11%	1,933	1.14%	1.09%	1.19%		538,628	168,973
1997	5,869	1.12%	1.09%	1.15%	1,912	1.18%	1.13%	1.23%	524,174	162,036	
1998	6,013	1.15%	1.12%	1.18%	1,932	1.22%	1.16%	1.27%	521,265	158,604	

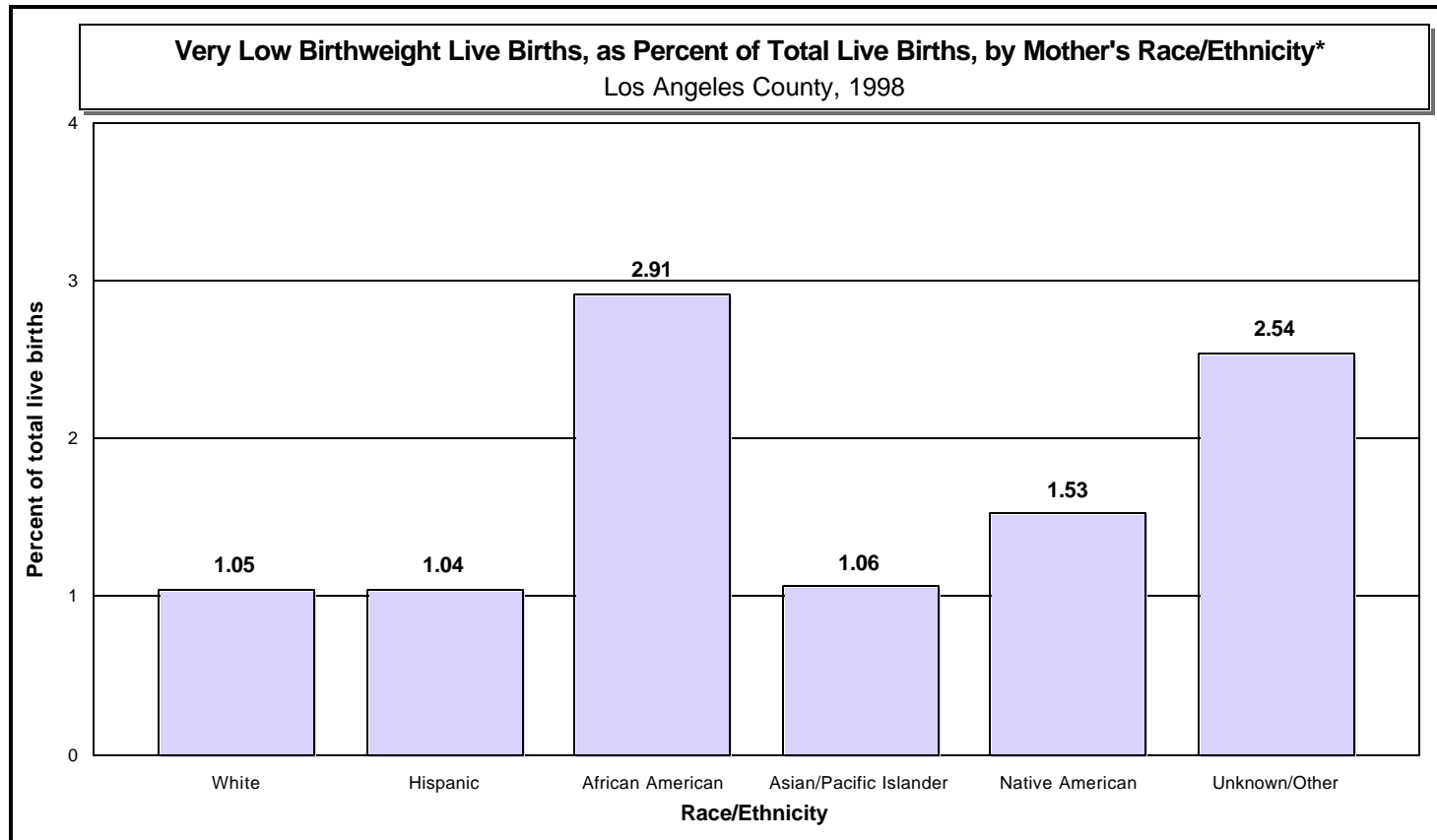
**Source:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

## Percent Very Low Birthweight California vs. Los Angeles County, 1990 - 1998



**Year 2000 Objective:** Reduce very low birthweight to an incidence of no more than 1 percent of live births

**Source:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics



Race/Ethnicity												
White		Hispanic		African American		Asian**/Pacific Islander		Native American		Unknown/Other		
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	320	1.05	1,023	1.04	415	2.91	159	1.06	4	1.53	11	2.54
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00

\* White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity

Hispanic includes any race category

\*\* Filipino is included in Asian

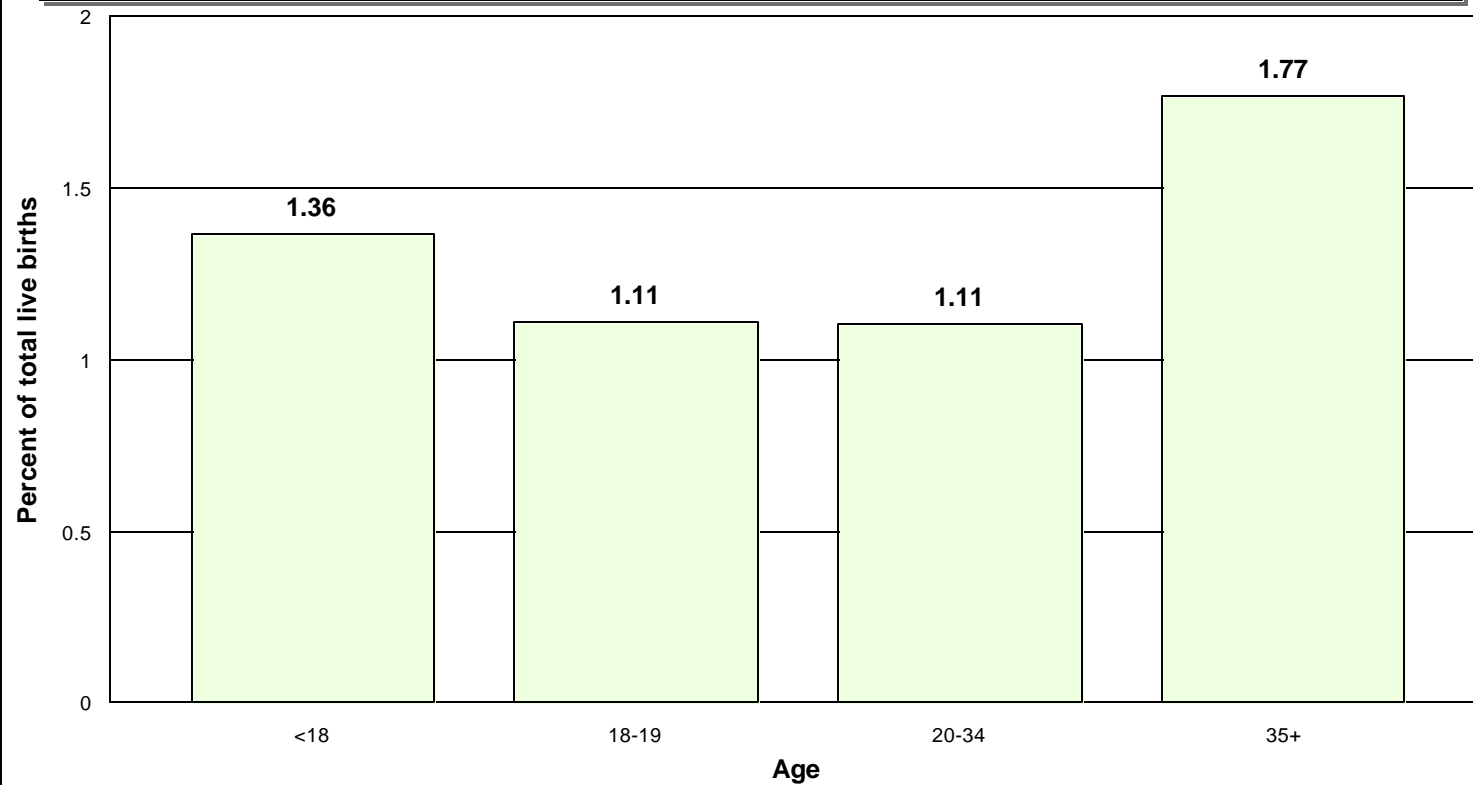
Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

### Very Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Age

Los Angeles County, 1998



	Age									
	<18		18-19		20-34		35+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	97	1.36	124	1.11	1,290	1.11	421	1.77	0	0.00
Total	7,107	100.00	11,153	100.00	116,491	100.00	23,833	100.00	20	100.00

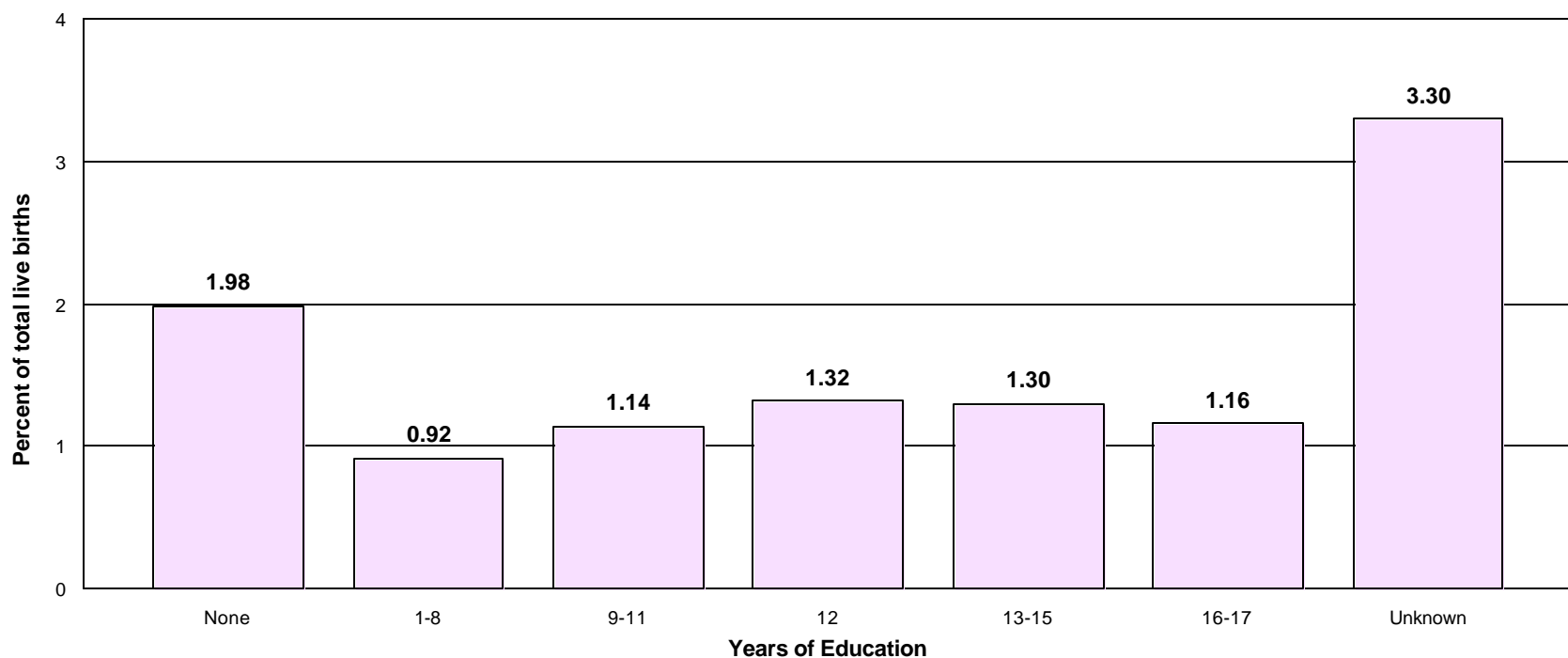
Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: 1998 birth record from the California Department of Health Services, Center for Health Statistics

# **Very Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Years of Education**

Los Angeles County, 1998



	Years of Education													
	None		1-8		9-11		12		13-15		16-17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	11	1.98	226	0.92	393	1.14	582	1.32	348	1.30	298	1.16	74	3.30
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

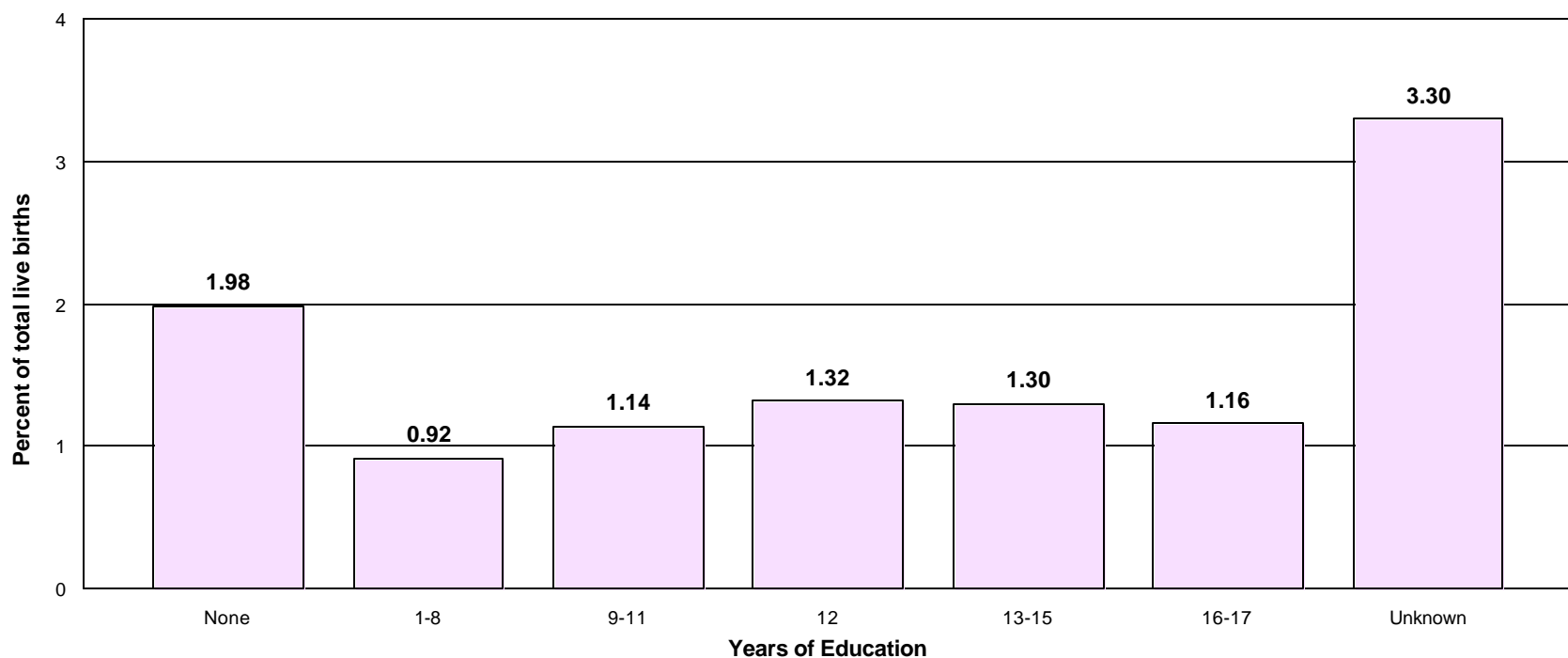
Year '17' = mothers who attained college degree or above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 birth record from the California Department of Health Services, Center for Health Statistics

### Very Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Years of Education

Los Angeles County, 1998



	Years of Education													
	None		1-8		9-11		12		13-15		16-17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	11	1.98	226	0.92	393	1.14	582	1.32	348	1.30	298	1.16	74	3.30
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

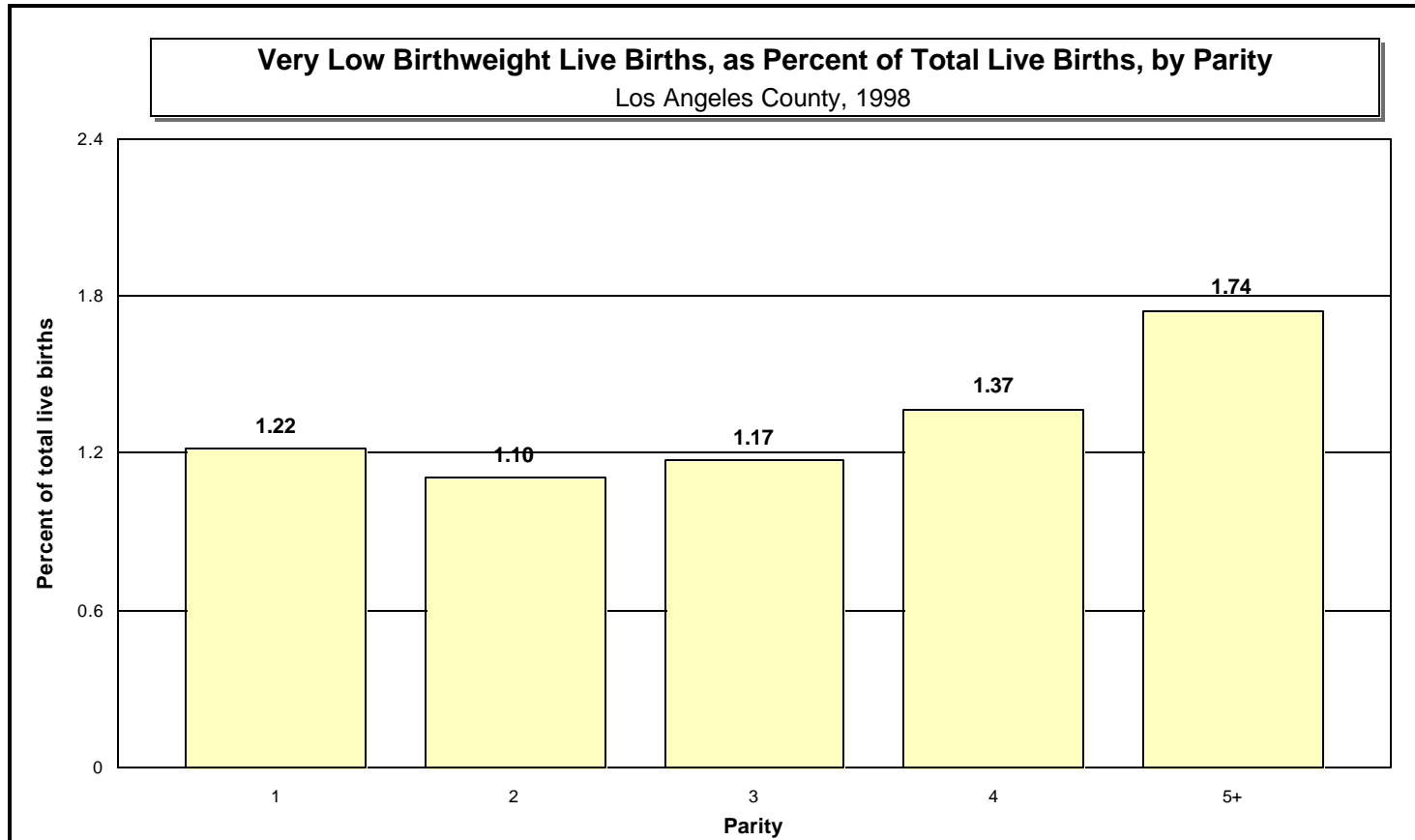
Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Year '17' = mothers who attained college degree or above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 birth record from the California Department of Health Services, Center for Health Statistics





	Parity											
	1		2		3		4		5+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	723	1.22	548	1.10	329	1.17	168	1.37	155	1.74	9	4.15
Total	59,482	100.00	49,634	100.00	28,084	100.00	12,290	100.00	8,897	100.00	217	100.00

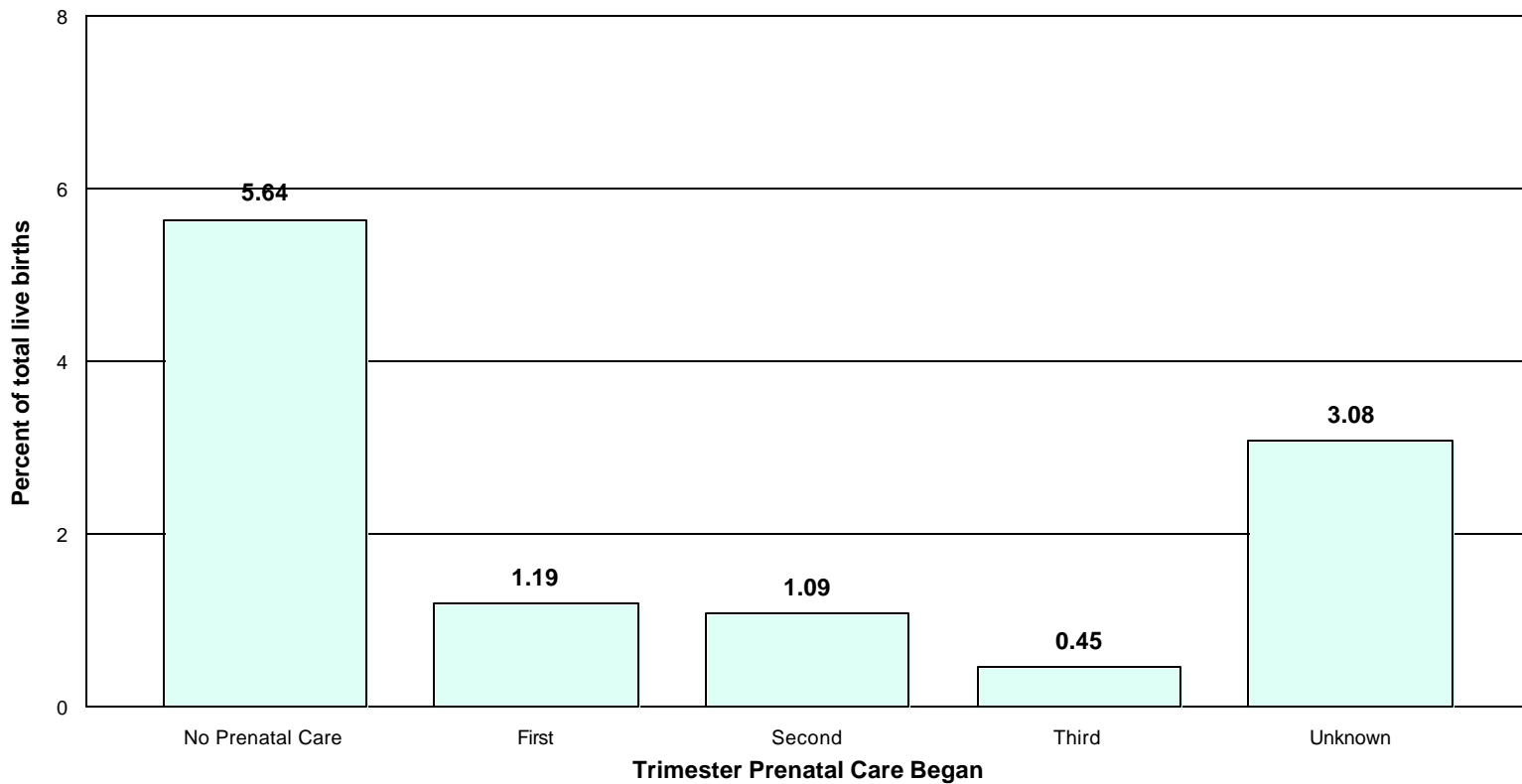
Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Parity = number of pregnancies resulting in live births to a woman

Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

**Very Low Birthweight Live Births, as Percent of Total Live Births, by Mother's Trimester Prenatal Care Began**  
Los Angeles County, 1998



Live Births	Trimester Prenatal Care Began									
	No Prenatal Care		First		Second		Third		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	59	5.64	1,582	1.19	213	1.09	15	0.45	63	3.08
Total	1,046	100.00	132,607	100.00	19,590	100.00	3,315	100.00	2,046	100.00

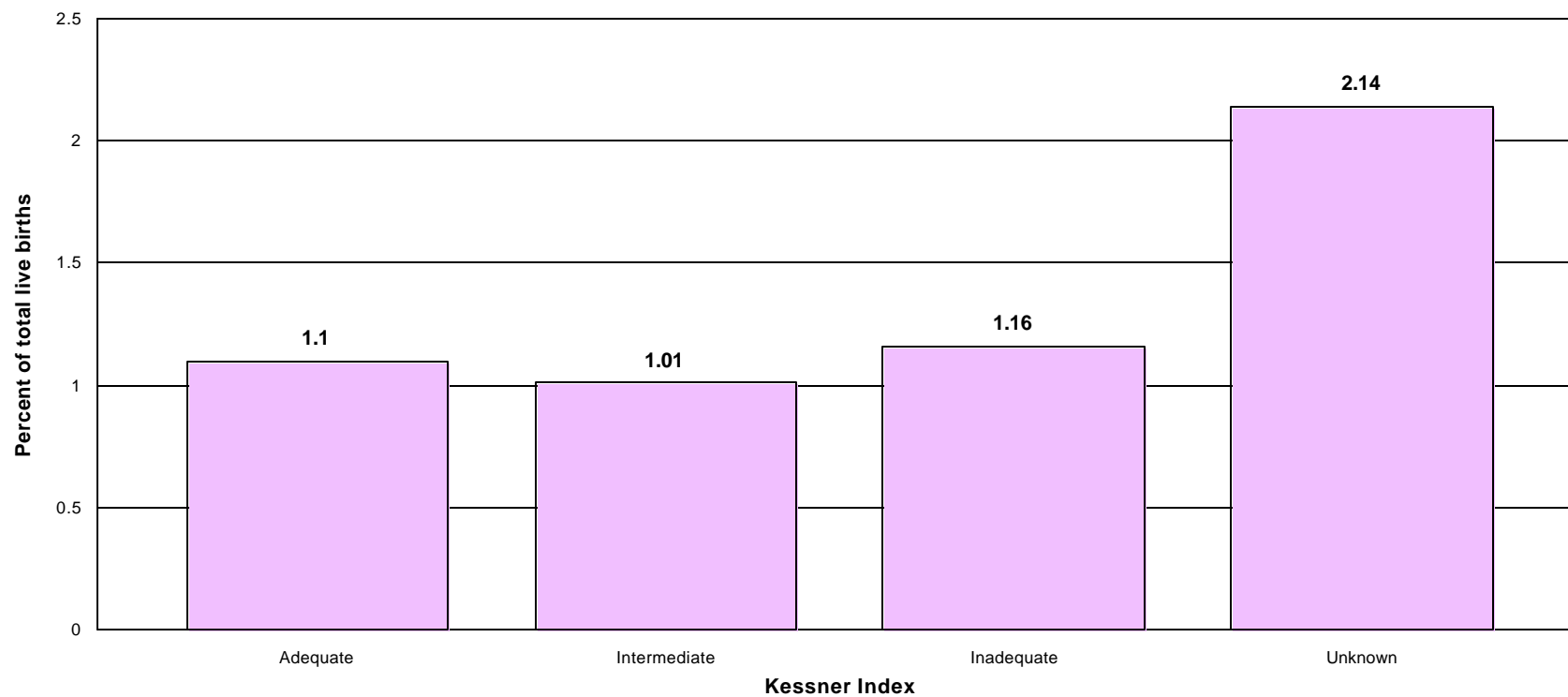
Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

### Very Low Birthweight Live Births, as Percent of Total Live Births, by Kessner Index

Los Angeles County, 1998



		Kessner Index							
		Inadequate		Intermediate		Adequate		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
<1,500 grams	46	1.10	175	1.01	1,452	1.16	259	2.14	
Total	4,182	100.00	17,271	100.00	125,042	100.00	12,109	100.00	

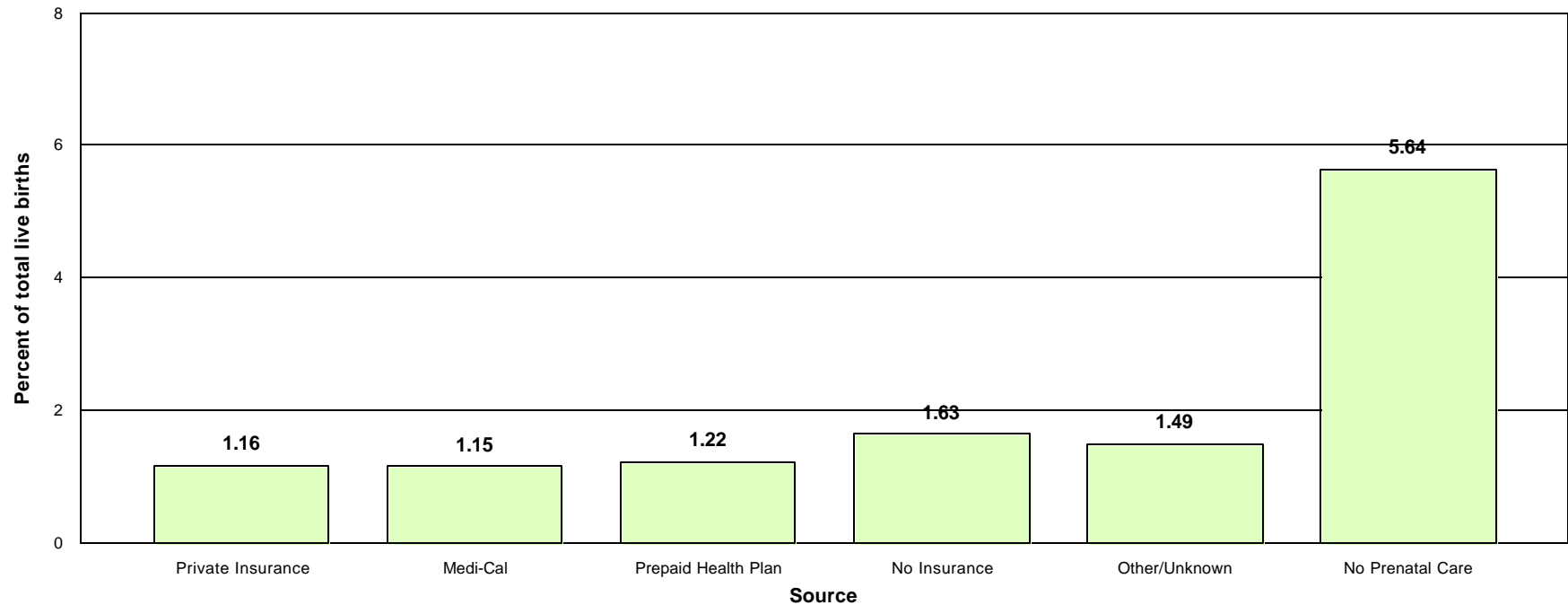
Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

**Very Low Birthweight Live Births, as Percent of Total Live Births, by Payment Source for Prenatal Care**  
Los Angeles County, 1998



	Source of Payment											
	Private Insurance		Medi-Cal		Prepaid Health Plan		No Insurance		Other/Unknown		No Prenatal Care	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<1,500 grams	317	1.16	853	1.15	616	1.22	70	1.63	17	1.49	59	5.64
Total	27,248	100.00	74,468	100.00	50,411	100.00	4,291	100.00	1,140	100.00	1,046	100.00

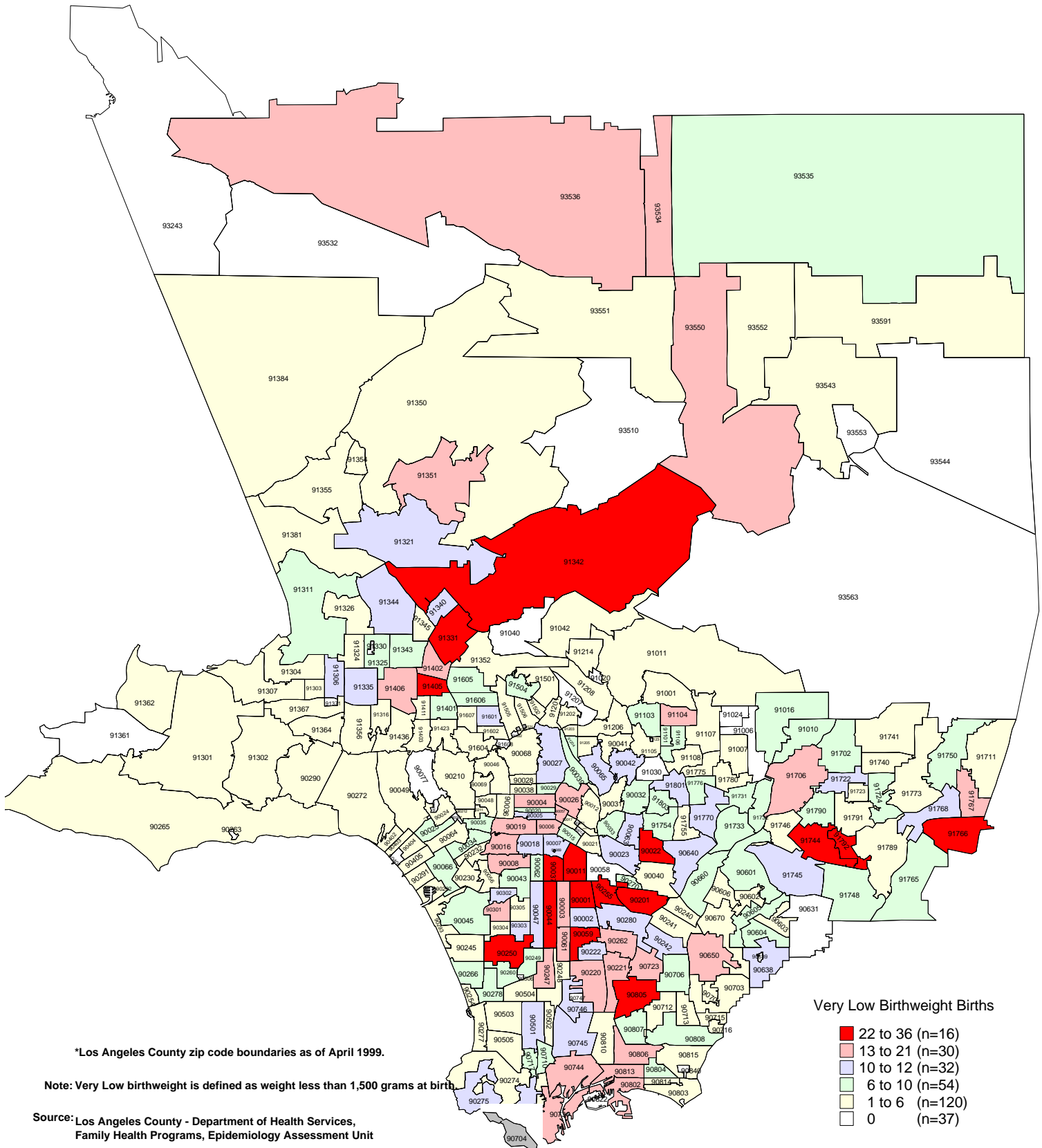
Year 2000 Objective: Reduce very low birthweight to an incidence of no more than 1 percent of live births.

Note: Very low birthweight is defined as weight less than 1,500 grams at birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

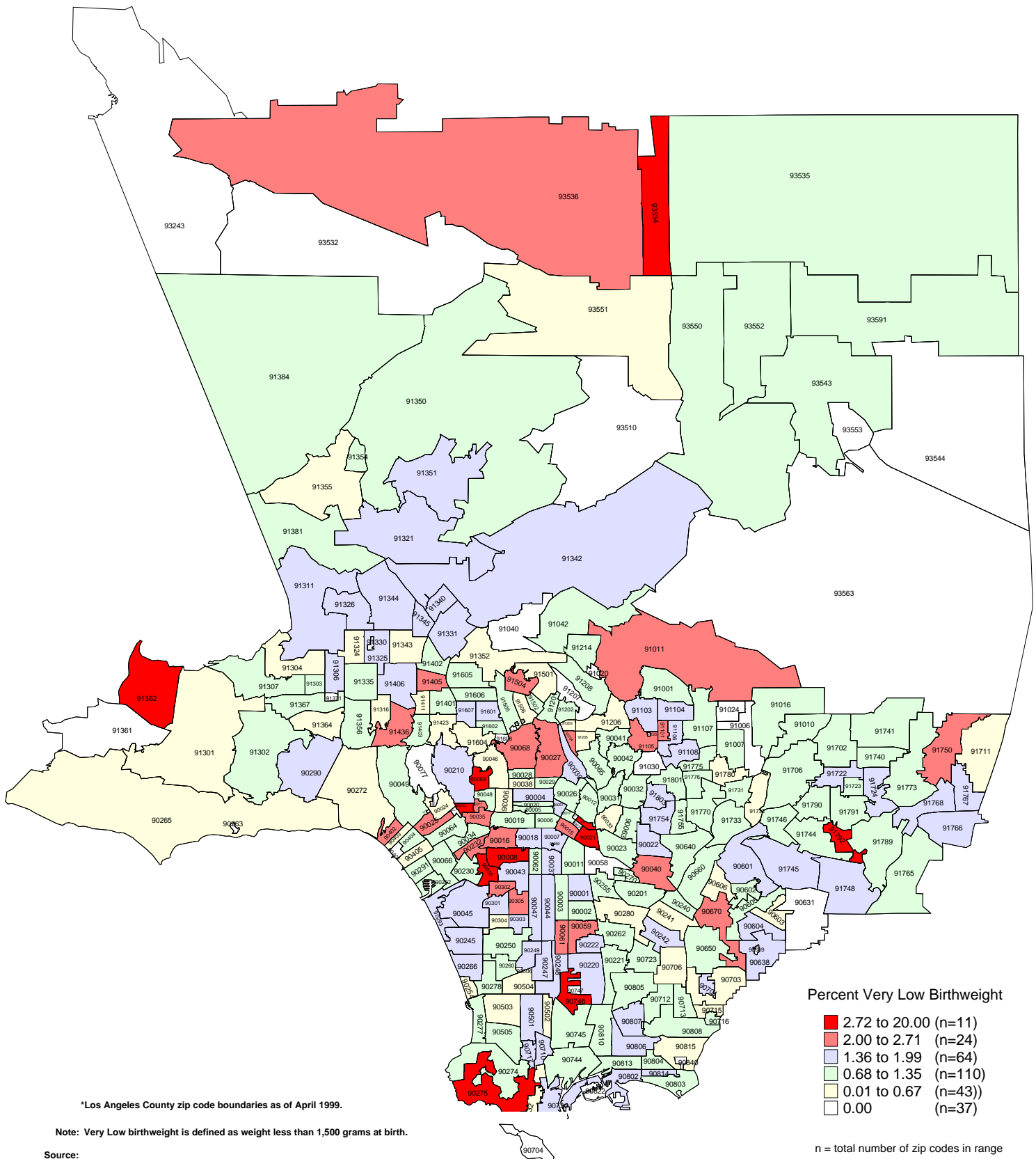
# Number of Very Low Birthweight (VLBW) Live Births by Zip Code\*

Los Angeles County, 1998



# Percent Very Low BirthWeight (VLBW) Live Births by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Note: Very Low birthweight is defined as weight less than 1,500 grams at birth.

Source: Los Angeles County Department of Health Services,  
Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services,  
Center for Health Statistics

\*\*Year 2000

Objective: Reduce very low birthweight to an incidence of  
no more than 1 percent of live births.

# **Prenatal Care**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** First trimester onset of prenatal care

**DEFINITION:** The percent of live born infants whose mothers received prenatal care in the first trimester of pregnancy

**NUMERATOR:** The number of live births to women who received prenatal care during the first trimester, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.  
(Baseline: 76 percent of live births in 1987) (Objective 14.11)\*

**RISK FACTORS:** For not obtaining early prenatal care

Low income; young maternal age/teen pregnancy; low maternal education level; race/ethnicity (African American, Hispanic, American Indian/Alaska Native); high parity; maternal substance abuse; lack of health insurance; lack of obstetrical providers

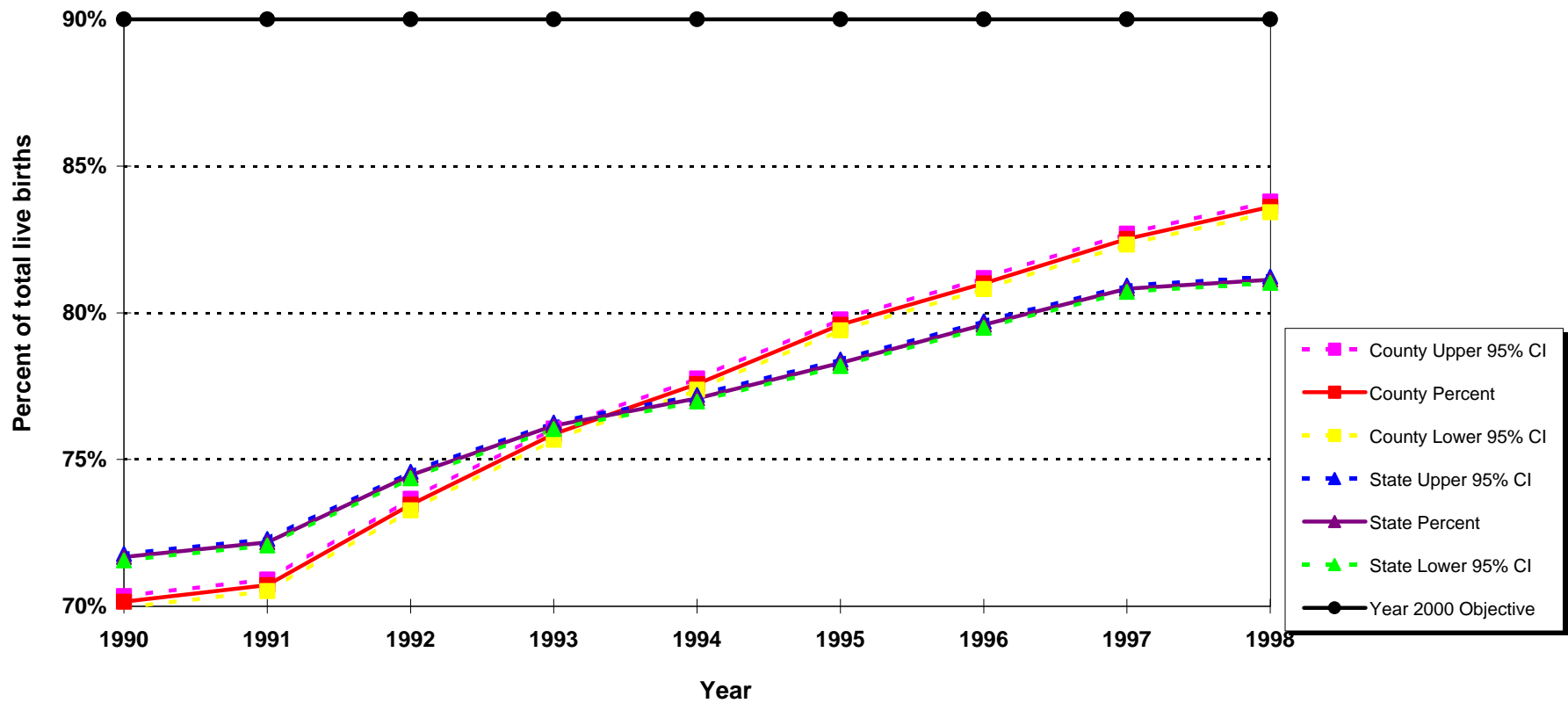
	California				LA County				DENOMINATOR: Live Births	
	First Trimester Prenatal Care		95% Confidence Interval		First Trimester Prenatal Care		95% Confidence Interval			
Year	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	California	LA County
1990	438,407	71.67%	71.56%	71.79%	143,195	70.15%	69.95%	70.35%	611,666	204,124
1991	439,733	72.18%	72.07%	72.29%	143,369	70.72%	70.52%	70.91%	609,228	202,737
1992	447,434	74.47%	74.36%	74.58%	145,029	73.46%	73.27%	73.66%	600,838	197,415
1993	445,079	76.15%	76.04%	76.26%	143,920	75.86%	75.67%	76.06%	584,483	189,706
1994	437,094	77.08%	76.97%	77.19%	139,928	77.57%	77.38%	77.76%	567,034	180,394
1995	431,572	78.29%	78.18%	78.40%	139,172	79.59%	79.40%	79.78%	551,226	174,862
1996	428,724	79.60%	79.49%	79.70%	136,863	81.00%	80.81%	81.18%	538,628	168,973
1997	423,640	80.82%	80.71%	80.93%	133,701	82.51%	82.33%	82.70%	524,174	162,036
1998	422,866	81.12%	81.02%	81.23%	132,607	83.61%	83.43%	83.79%	521,265	158,604

**Source:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

**Note:** \*This measure (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.



## Percent First Trimester Onset of Prenatal Care California vs. Los Angeles County, 1990 - 1998

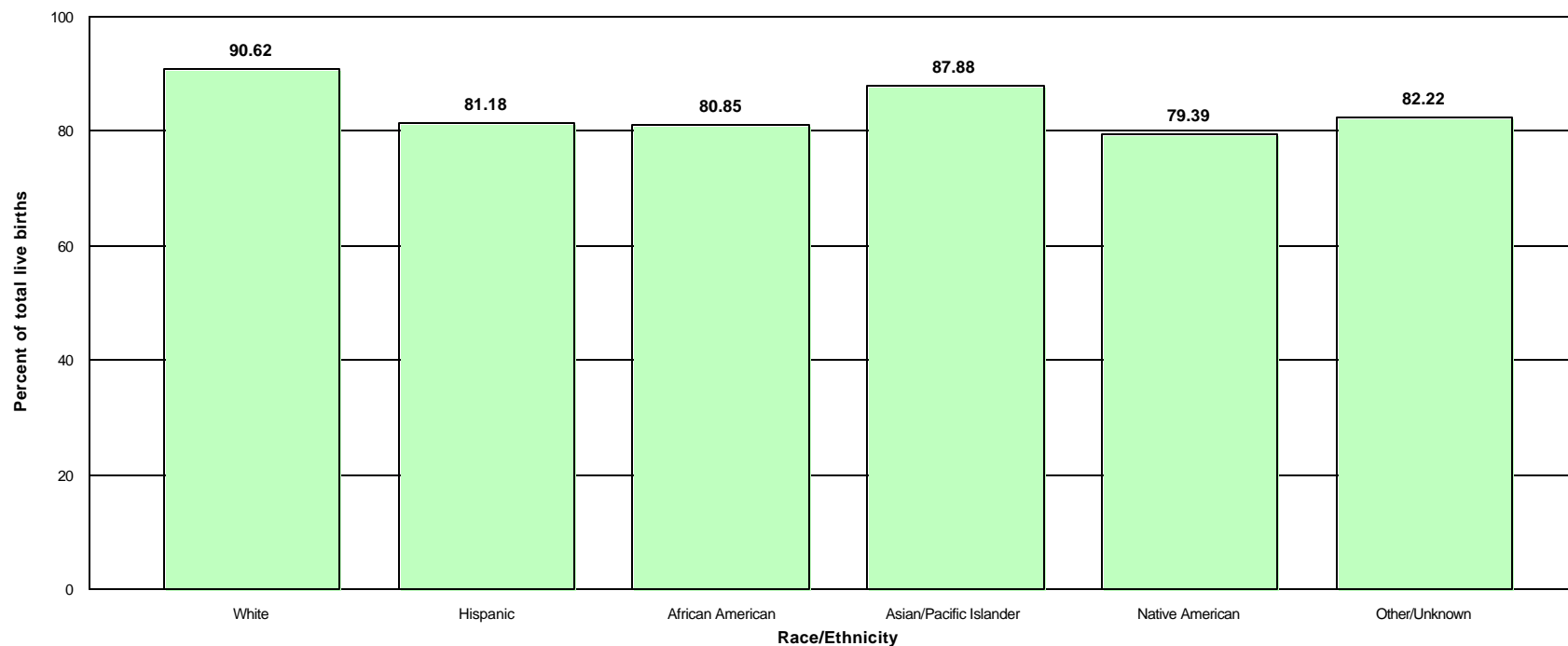


**Year 2000 Objective:** Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

**Source:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

### Live Births to Mothers Starting Prenatal Care in First Trimester, as Percent of Total Live Births, by Mother's Race/Ethnicity\*

Los Angeles County, 1998



		Race/Ethnicity											
		White		Hispanic		African American		Asian**/Pacific Islander		Native American		Other/Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
First	27,750	90.62	79,621	81.18	11,518	80.85	13,154	87.88	208	79.39	356	82.22	
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00	

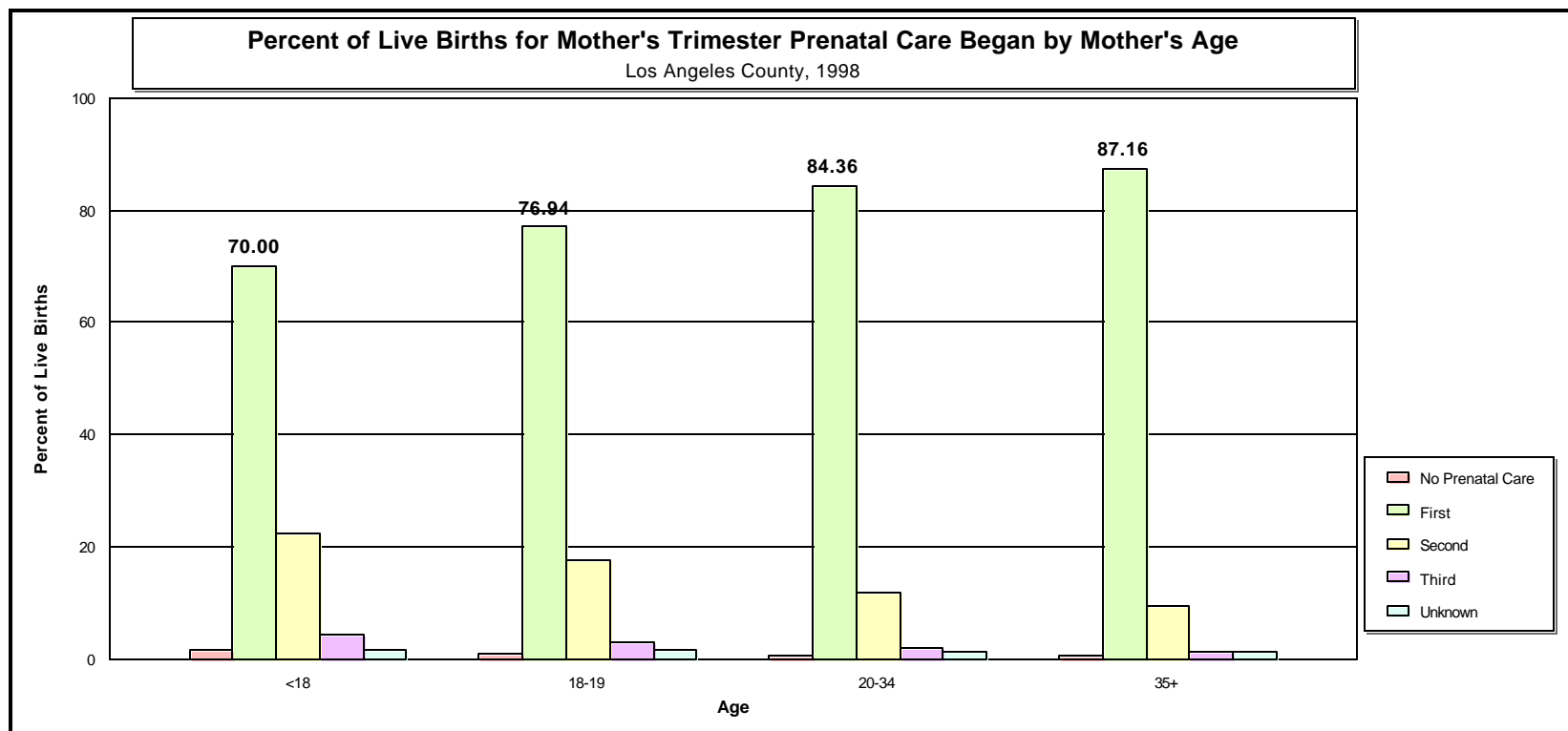
\* White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity  
Hispanic includes any race category

\*\* Filipino is included in Asian

Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

Note: This measure (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



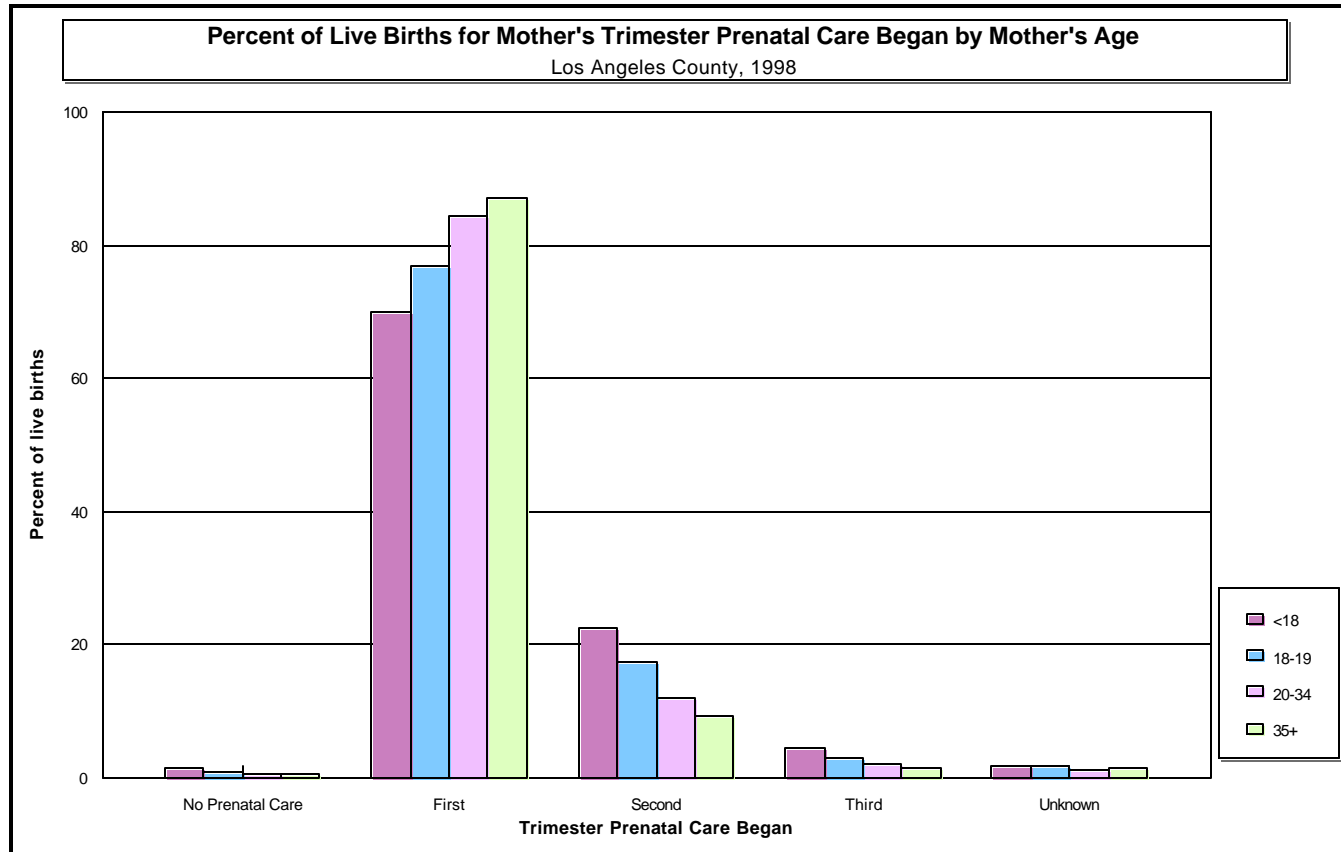
Live Births	Age									
	< 18		18 - 19		20 - 34		35+		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	108	1.52	97	0.87	695	0.60	146	0.61	0	0.00
First	4,975	70.00	8,581	76.94	98,273	84.36	20,772	87.16	6	30.00
Second	1,597	22.47	1,952	17.50	13,797	11.84	2,239	9.39	5	25.00
Third	310	4.36	339	3.04	2,319	1.99	347	1.46	0	0.00
Unknown	117	1.65	184	1.65	1,407	1.21	329	1.38	9	45.00
Total	7,107	100.00	11,153	100.00	116,491	100.00	23,833	100.00	20	100.00

Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

PNC = 'Prenatal Care'

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



Live Births	Age									
	< 18		18 - 19		20 - 34		35+		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	108	1.52	97	0.87	695	0.60	146	0.61	0	0.00
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Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy

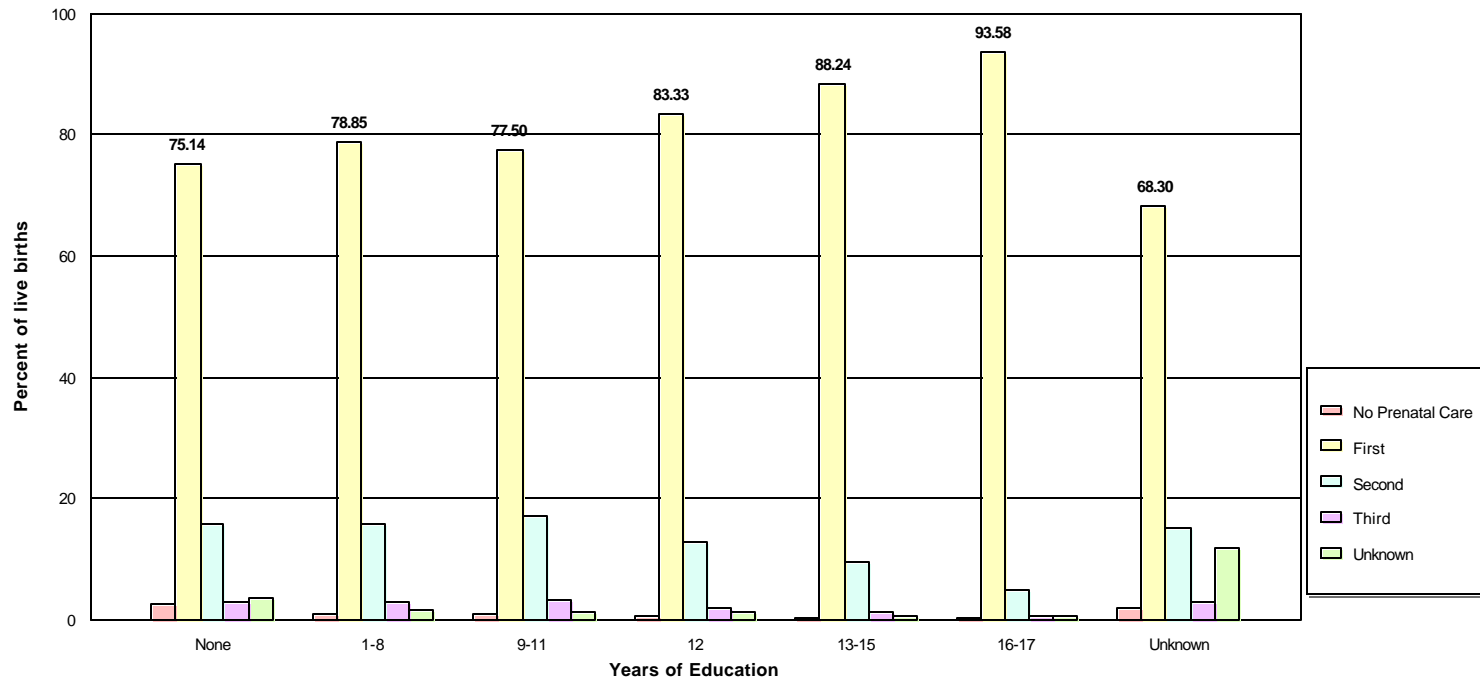
Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

PNC = 'Prenatal Care'

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

### Percent of Live Births for Mother's Trimester Prenatal Care Began by Mother's Years of Education

Los Angeles County, 1998



	Years of Education													
	None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	14	2.52	205	0.83	348	1.01	295	0.67	99	0.37	41	0.16	44	1.96
First	417	75.14	19,467	78.85	26,721	77.50	36,837	83.33	23,617	88.24	24,022	93.58	1,532	68.30
Second	88	15.86	3,872	15.68	5,863	17.00	5,666	12.82	2,522	9.42	1,242	4.84	337	15.02
Third	16	2.88	729	2.95	1,089	3.16	889	2.01	334	1.25	190	0.74	68	3.03
Unknown	20	3.60	417	1.69	459	1.33	521	1.18	192	0.72	175	0.68	262	11.68
Total	555	100.00	24,690	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

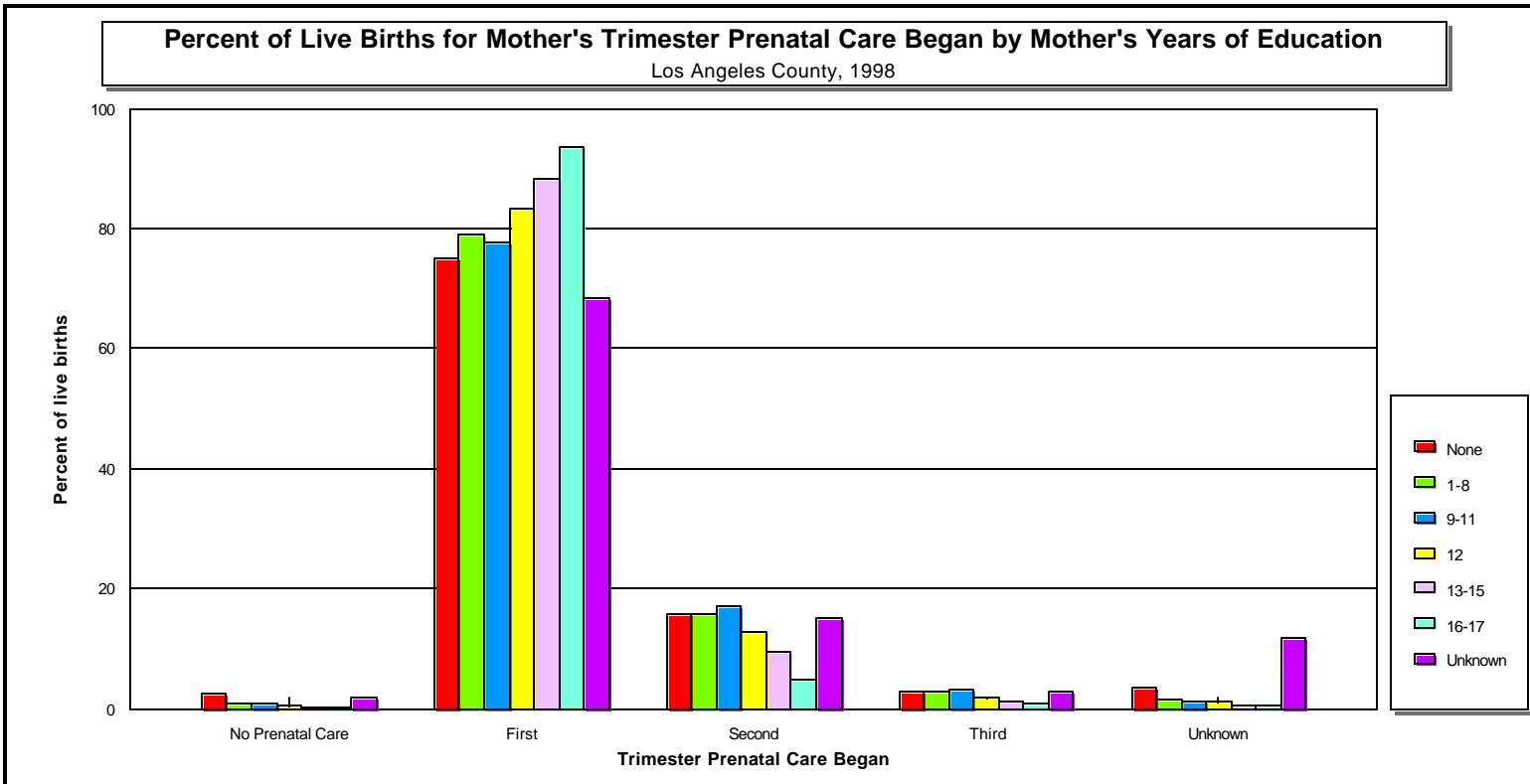
Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

PNC = 'Prenatal Care'

Year '17' = mothers who attained college degree and above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



Live Births	Years of Education													
	None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	14	2.52	205	0.83	348	1.01	295	0.67	99	0.37	41	0.16	44	1.96
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Third	16	2.88	729	2.95	1,089	3.16	889	2.01	334	1.25	190	0.74	68	3.03
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Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

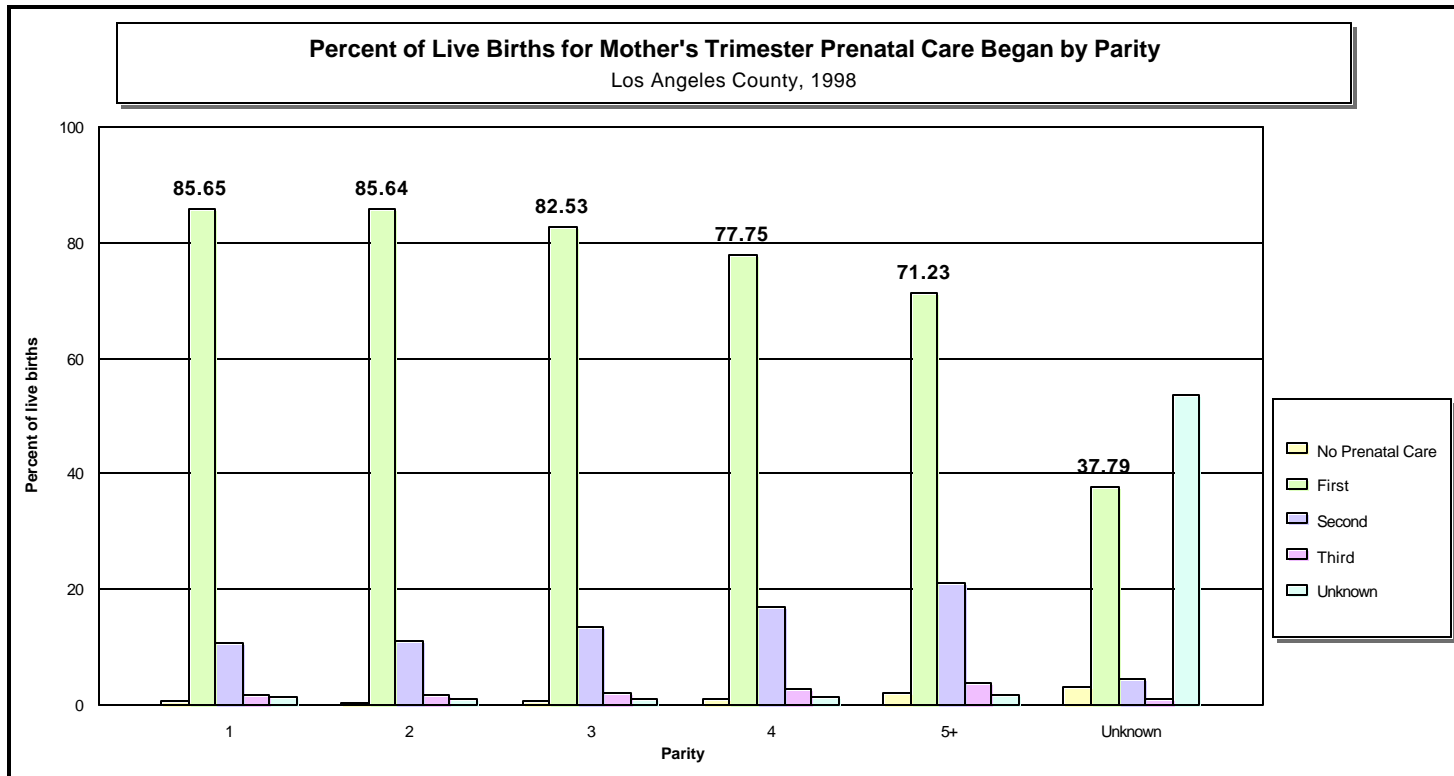
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PNC = 'Prenatal Care'

Year '17' = mothers who attained college degree and above

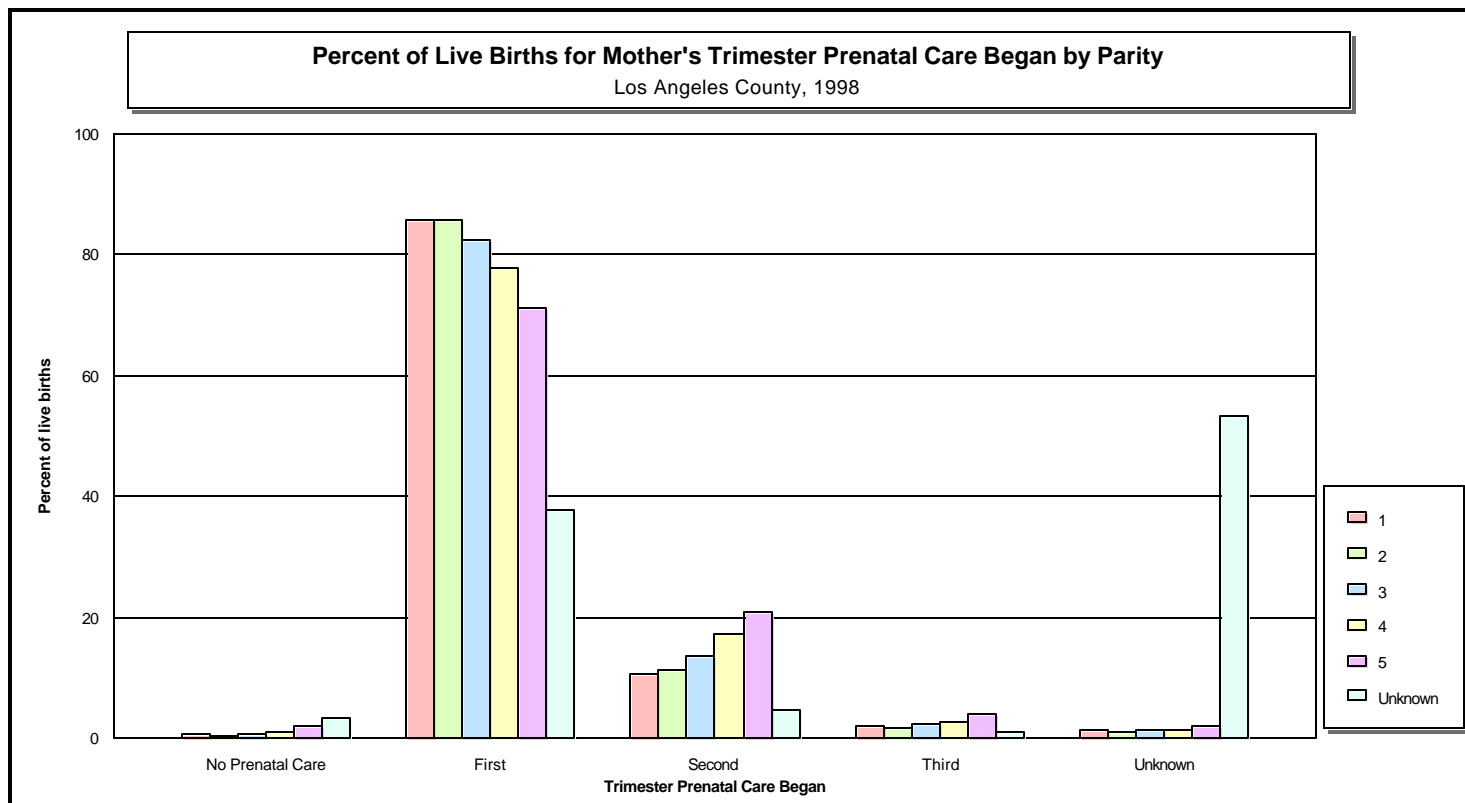
This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



Live Births	Parity											
	1		2		3		4		5+		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	327	0.55	228	0.46	163	0.58	138	1.12	183	2.06	7	3.23
First	50,949	85.65	42,506	85.64	23,177	82.53	9,556	77.75	6,337	71.23	82	37.79
Second	6,289	10.57	5,535	11.15	3,792	13.50	2,099	17.08	1,865	20.96	10	4.61
Third	1,147	1.93	860	1.73	629	2.24	335	2.73	342	3.84	2	0.92
Unknown	770	1.29	505	1.02	323	1.15	162	1.32	170	1.91	116	53.46
Total	59,482	100.00	49,634	100.00	28,084	100.00	12,290	100.00	8,897	100.00	217	100.00

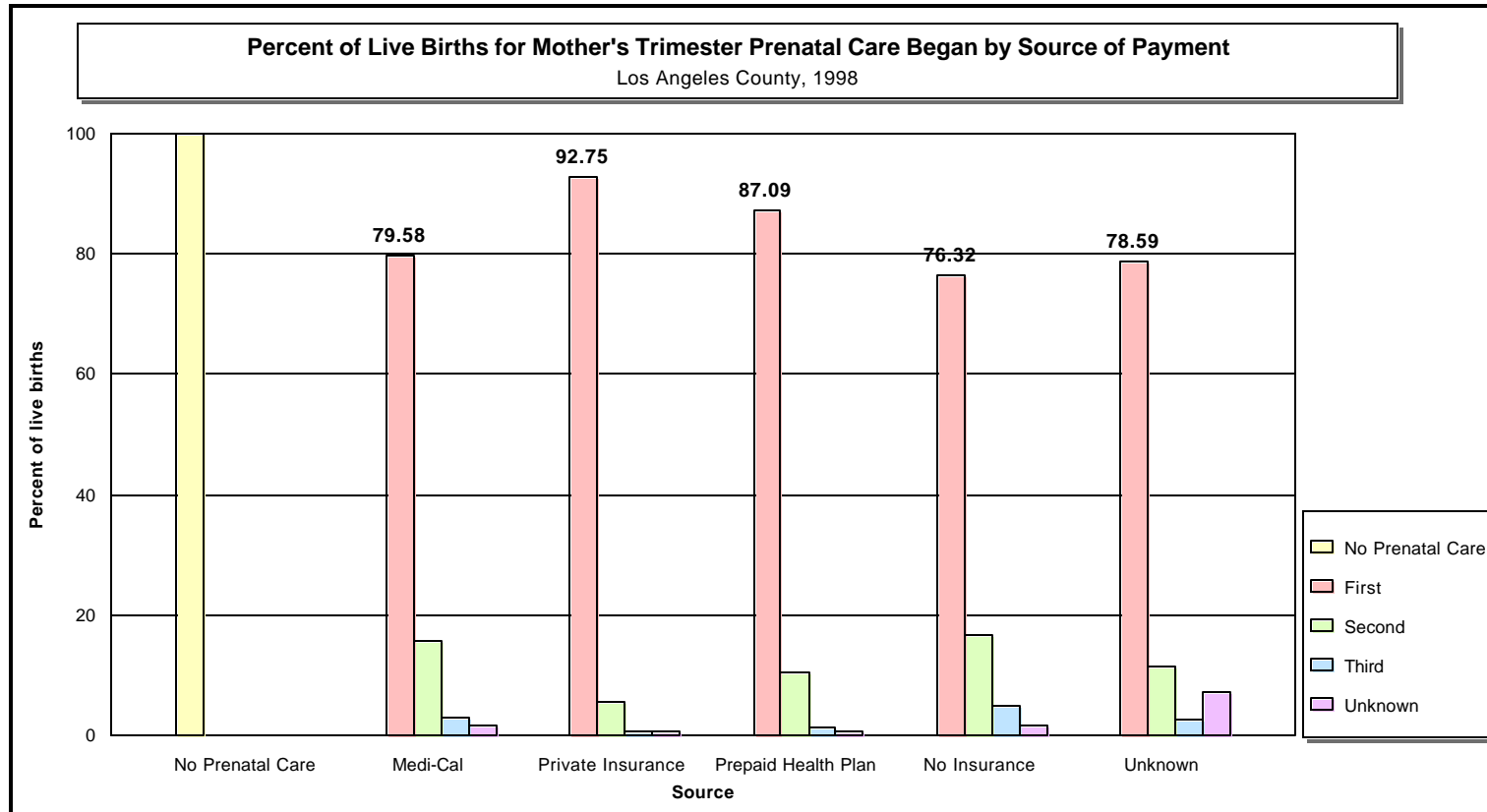
Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.  
 Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.  
 PNC = 'Prenatal Care'  
 Parity = number of pregnancies resulting in live births to a woman  
 Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



	Parity											
	1		2		3		4		5+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
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 Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.  
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 Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics





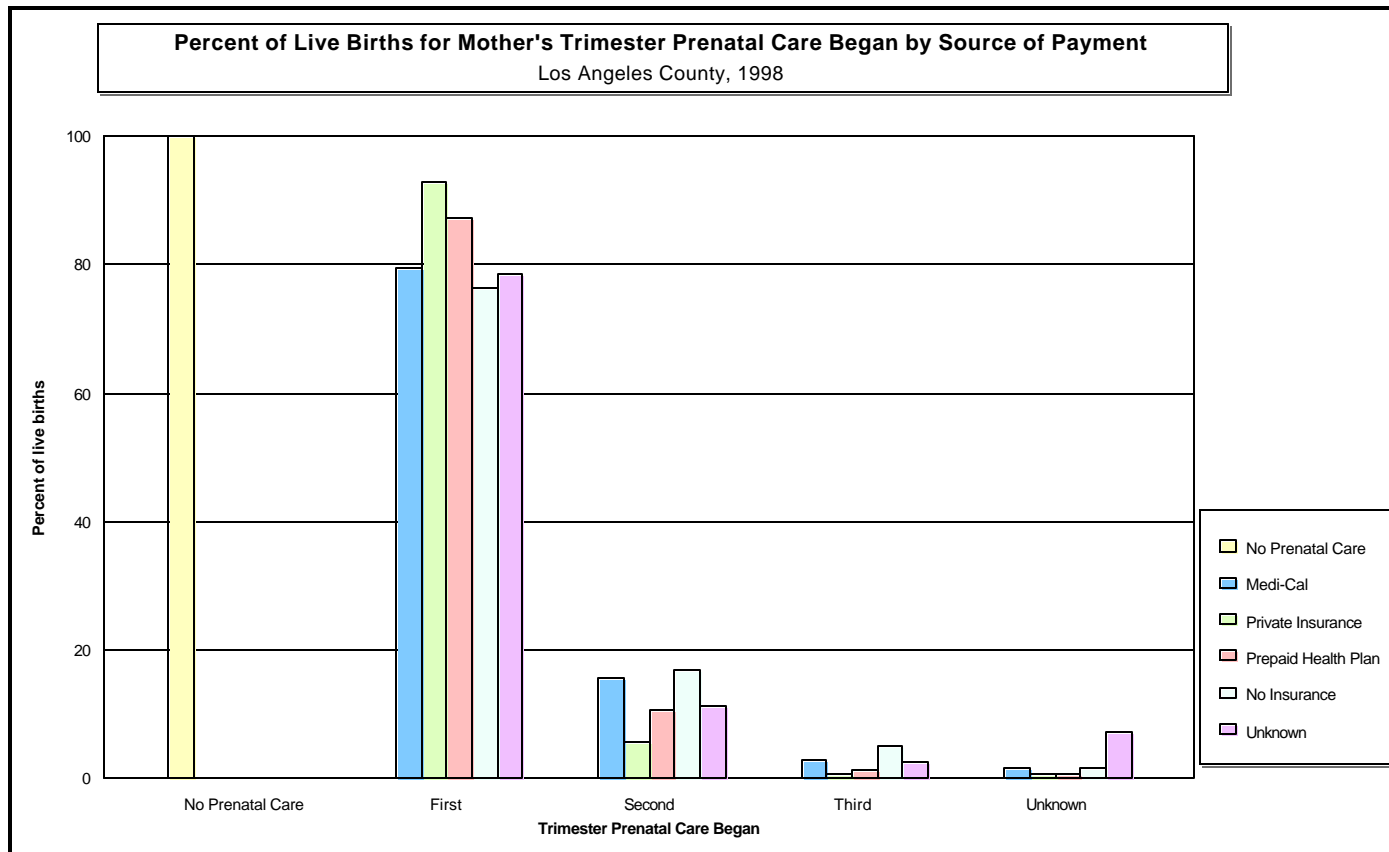
	Source of Payment											
	No Prenatal Care		Medi-Cal		Private Insurance		Prepaid Health Plan		No Insurance		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	1,046	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
First	0	0.00	59,259	79.58	25,273	92.75	43,897	87.09	3,275	76.32	903	78.59
Second	0	0.00	11,770	15.81	1,580	5.80	5,387	10.69	722	16.83	131	11.40
Third	0	0.00	2,143	2.88	176	0.65	750	1.49	216	5.03	30	2.61
Unknown	0	0.00	1,296	1.74	219	0.80	368	0.73	78	1.82	85	7.40
Total	1,046	100.00	74,468	100.00	27,248	100.00	50,402	100.00	4,291	100.00	1,149	100.00

Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

PNC = 'Prenatal Care'

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



	Source of Payment											
	No Prenatal Care		Medi-Cal		Private Insurance		Prepaid Health Plan		No Insurance		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	1,046	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
First	0	0.00	59,259	79.58	25,273	92.75	43,897	87.09	3,275	76.32	903	78.53
Second	0	0.00	11,770	15.81	1,580	5.80	5,387	10.69	722	16.83	131	11.40
Third	0	0.00	2,143	2.88	176	0.65	750	1.49	216	5.03	30	2.61
Unknown	0	0.00	1,296	1.74	219	0.80	368	0.73	78	1.82	85	7.40
Total	1,046	100.00	74,468	100.00	27,248	100.00	50,402	100.00	4,291	100.00	1,149	100.00

Year 2000 Objective: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy

Note: 'Trimester Prenatal Care Began' (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

PNC = 'Prenatal Care'

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
90001	1,478	15	1.01	1,146	77.54	211	14.28	26	1.76
90002	1,034	11	1.06	826	79.88	149	14.41	19	1.84
90003	1,438	16	1.11	1,117	77.68	207	14.39	54	3.76
90004	1,141	12	1.05	959	84.05	141	12.36	24	2.1
90005	826	**	0.12	697	84.38	104	12.59	21	2.54
90006	1,262	9	0.71	1,036	82.09	175	13.87	33	2.61
90007	729	**	**	578	79.29	123	16.87	17	2.33
90008	473	3	0.63	386	81.61	59	12.47	14	2.96
90011	2,805	22	0.78	2,155	76.83	483	17.22	99	3.53
90012	253	**	**	212	83.79	30	11.86	5	1.98
90013	27	**	**	18	66.67	5	18.52	**	**
90014	22	**	**	17	77.27	3	13.64	**	**
90015	356	**	0.56	272	76.4	72	20.22	7	1.97
90016	760	6	0.79	593	78.03	125	16.45	22	2.89
90017	423	5	1.18	335	79.2	74	17.49	9	2.13
90018	778	6	0.77	623	80.08	126	16.2	17	2.19
90019	1,046	10	0.96	859	82.12	147	14.05	21	2.01
90020	825	5	0.61	727	88.12	80	9.7	10	1.21
90021	20	**	**	17	85	3	15	**	**
90022	1,513	6	0.4	1,196	79.05	220	14.54	67	4.43
90023	1,143	7	0.61	920	80.49	174	15.22	31	2.71
90024	260	**	**	245	94.23	10	3.85	**	**
90025	427	**	**	392	91.8	24	5.62	**	**
90026	1,257	12	0.95	1,018	80.99	183	14.56	32	2.55
90027	533	6	1.13	448	84.05	66	12.38	8	1.5
90028	377	**	**	310	82.23	55	14.59	7	1.86
90029	748	7	0.94	632	84.49	92	12.3	15	2.01
90031	714	4	0.56	597	83.61	89	12.46	15	2.1
90032	836	6	0.72	680	81.34	115	13.76	19	2.27
90033	1,145	18	1.57	891	77.82	186	16.24	39	3.41
90034	889	**	**	779	87.63	80	9	12	1.35
90035	393	**	**	364	92.62	18	4.58	6	1.53
90036	349	**	**	322	92.26	21	6.02	3	0.86
90037	1,313	9	0.69	1,040	79.21	212	16.15	34	2.59
90038	547	4	0.73	468	85.56	57	10.42	12	2.19
90039	451	3	0.67	390	86.47	48	10.64	10	2.22
90040	228	**	**	182	79.82	32	14.04	7	3.07
90041	379	**	**	307	81	56	14.78	10	2.64
90042	1,137	7	0.62	927	81.53	167	14.69	27	2.37
90043	654	7	1.07	520	79.51	110	16.82	10	1.53
90044	1,838	19	1.03	1,471	80.03	276	15.02	52	2.83

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics

# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
90045	597	**	**	545	91.29	43	7.2	4	0.67
90046	354	**	**	309	87.29	32	9.04	4	1.13
90047	710	7	0.99	572	80.56	108	15.21	18	2.54
90048	200	**	**	176	88	15	7.5	**	**
90049	310	**	**	294	94.84	9	2.9	**	**
90056	107	**	**	99	92.52	6	5.61	**	**
90057	1,011	9	0.89	841	83.18	133	13.16	23	2.27
90058	88	**	**	70	79.55	13	14.77	**	**
90059	900	9	1	714	79.33	144	16	21	2.33
90061	557	3	0.54	456	81.87	65	11.67	17	3.05
90062	550	5	0.91	432	78.55	94	17.09	13	2.36
90063	1,324	11	0.83	983	74.24	240	18.13	64	4.83
90064	314	**	**	292	92.99	17	5.41	**	**
90065	867	3	0.35	720	83.04	118	13.61	19	2.19
90066	855	**	**	767	89.71	62	7.25	10	1.17
90067	27	**	**	27	100	**	**	**	**
90068	201	**	**	195	97.01	5	2.49	**	**
90069	129	**	**	123	95.35	3	2.33	**	**
90073	**	**	**	**	**	**	**	**	**
90077	125	**	**	121	96.8	**	**	**	**
90089	**	**	**	**	**	**	**	**	**
90184	**	**	**	**	**	**	**	**	**
90201	2,516	15	0.6	1,977	78.58	334	13.28	74	2.94
90210	243	**	**	237	97.53	**	**	**	**
90211	80	**	**	78	97.5	**	**	**	**
90212	88	**	**	86	97.73	**	**	**	**
90220	999	8	0.8	785	78.58	167	16.72	17	1.7
90221	1,347	17	1.26	1,058	78.54	172	12.77	35	2.6
90222	722	7	0.97	583	80.75	98	13.57	18	2.49
90230	451	**	**	380	84.26	51	11.31	9	2
90232	177	**	**	145	81.92	23	12.99	5	2.82
90240	362	**	**	322	88.95	31	8.56	5	1.38
90241	659	4	0.61	558	84.67	72	10.93	13	1.97
90242	767	5	0.65	638	83.18	95	12.39	14	1.83
90245	197	**	**	189	95.94	8	4.06	**	**
90246	**	**	**	**	**	**	**	**	**
90247	819	**	**	709	86.57	95	11.6	13	1.59
90248	166	**	**	142	85.54	20	12.05	**	**
90249	392	**	**	329	83.93	52	13.27	10	2.55
90250	1,905	13	0.68	1,594	83.67	244	12.81	36	1.89

\*\*= fewer than 3 observations

Source:

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# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
90254	211	**	**	205	97.16	6	2.84	**	**
90255	1,853	10	0.54	1,433	77.33	242	13.06	63	3.4
90256	**	**	**	**	**	**	**	**	**
90260	614	3	0.49	517	84.2	80	13.03	9	1.47
90262	1,673	9	0.54	1,316	78.66	232	13.87	54	3.23
90263	**	**	**	**	**	**	**	**	**
90265	179	**	**	170	94.97	7	3.91	**	**
90266	447	**	**	438	97.99	4	0.89	**	**
90270	684	6	0.88	535	78.22	93	13.6	21	3.07
90272	247	**	**	235	95.14	6	2.43	**	**
90274	214	**	**	207	96.73	7	3.27	**	**
90275	354	**	**	340	96.05	12	3.39	**	**
90277	387	**	**	368	95.09	16	4.13	**	**
90278	595	**	**	569	95.63	18	3.03	4	0.67
90280	2,075	9	0.43	1,648	79.42	267	12.87	52	2.51
90286	**	**	**	**	**	**	**	**	**
90290	71	**	**	68	95.77	3	4.23	**	**
90291	353	**	**	289	81.87	47	13.31	3	0.85
90292	178	**	**	162	91.01	7	3.93	**	**
90293	124	**	**	120	96.77	**	**	**	**
90299	**	**	**	**	**	**	**	**	**
90301	797	5	0.63	667	83.69	91	11.42	21	2.63
90302	589	**	**	500	84.89	67	11.38	14	2.38
90303	589	4	0.68	470	79.8	89	15.11	19	3.23
90304	719	**	**	591	82.2	95	13.21	19	2.64
90305	150	**	**	128	85.33	15	10	4	2.67
90350	**	**	**	**	**	**	**	**	**
90401	33	**	**	31	93.94	**	**	**	**
90402	120	**	**	112	93.33	6	5	**	**
90403	186	**	**	175	94.09	4	2.15	4	2.15
90404	216	**	**	183	84.72	27	12.5	4	1.85
90405	257	**	**	237	92.22	10	3.89	**	**
90501	699	5	0.72	590	84.41	86	12.3	17	2.43
90502	231	**	**	198	85.71	23	9.96	9	3.9
90503	503	4	0.8	467	92.84	28	5.57	4	0.8
90504	333	**	**	301	90.39	26	7.81	5	1.5
90505	417	**	**	396	94.96	16	3.84	5	1.2
90506	3	**	**	**	**	**	**	**	**
90601	513	4	0.78	433	84.41	58	11.31	7	1.36
90602	483	**	**	402	83.23	57	11.8	4	0.83

\*\*= fewer than 3 observations

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Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
90603	232	**	**	214	92.24	13	5.6	**	**
90604	649	**	**	559	86.13	65	10.02	9	1.39
90605	719	**	**	611	84.98	83	11.54	15	2.09
90606	584	3	0.51	494	84.59	61	10.45	12	2.05
90615	**	**	**	**	**	**	**	**	**
90630	**	**	**	**	**	**	**	**	**
90631	19	**	**	19	100	**	**	**	**
90638	587	**	**	533	90.8	42	7.16	6	1.02
90639	**	**	**	**	**	**	**	**	**
90640	1,105	3	0.27	927	83.89	147	13.3	20	1.81
90650	1,976	12	0.61	1,606	81.28	277	14.02	52	2.63
90660	1,111	6	0.54	909	81.82	151	13.59	20	1.8
90670	247	**	**	202	81.78	35	14.17	**	**
90701	272	4	1.47	225	82.72	34	12.5	8	2.94
90703	466	**	**	410	87.98	40	8.58	10	2.15
90704	44	**	**	41	93.18	**	**	**	**
90706	1,347	3	0.22	1,096	81.37	190	14.11	34	2.52
90710	378	**	**	308	81.48	54	14.29	13	3.44
90712	382	**	**	336	87.96	36	9.42	**	**
90713	350	**	**	323	92.29	23	6.57	**	**
90715	338	**	**	267	78.99	57	16.86	10	2.96
90716	377	5	1.33	286	75.86	70	18.57	15	3.98
90717	349	3	0.86	294	84.24	43	12.32	9	2.58
90720	3	**	**	**	**	3	100	**	**
90723	1,290	3	0.23	999	77.44	196	15.19	32	2.48
90731	1,046	16	1.53	792	75.72	179	17.11	49	4.68
90732	231	**	**	207	89.61	18	7.79	5	2.16
90744	1,216	5	0.41	917	75.41	219	18.01	71	5.84
90745	967	4	0.41	794	82.11	128	13.24	37	3.83
90746	321	6	1.87	282	87.85	25	7.79	5	1.56
90800	**	**	**	**	**	**	**	**	**
90802	660	13	1.97	490	74.24	121	18.33	26	3.94
90803	322	4	1.24	304	94.41	11	3.42	3	0.93
90804	864	5	0.58	651	75.35	168	19.44	25	2.89
90805	1,826	24	1.31	1,421	77.82	285	15.61	62	3.4
90806	1,027	12	1.17	785	76.44	167	16.26	43	4.19
90807	453	**	**	386	85.21	49	10.82	15	3.31
90808	474	3	0.63	433	91.35	29	6.12	6	1.27
90810	626	6	0.96	473	75.56	101	16.13	34	5.43
90812	6	**	**	5	83.33	**	**	**	**
90813	1,582	25	1.58	1,101	69.6	357	22.57	77	4.87

\*\*= fewer than 3 observations

Source:

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# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
90814	265	**	**	231	87.17	28	10.57	3	1.13
90815	463	**	**	425	91.79	28	6.05	5	1.08
90818	**	**	**	**	**	**	**	**	**
91001	517	**	**	432	83.56	56	10.83	5	0.97
91006	343	**	**	315	91.84	21	6.12	4	1.17
91007	280	**	**	258	92.14	18	6.43	**	**
91010	455	**	**	391	85.93	49	10.77	7	1.54
91011	157	**	**	145	92.36	7	4.46	**	**
91016	701	4	0.57	626	89.3	55	7.85	7	1
91020	90	**	**	75	83.33	13	14.44	**	**
91024	110	**	**	106	96.36	**	**	**	**
91030	246	**	**	228	92.68	11	4.47	**	**
91040	235	3	1.28	204	86.81	23	9.79	4	1.7
91042	384	6	1.56	333	86.72	36	9.38	7	1.82
91101	267	**	**	220	82.4	31	11.61	3	1.12
91103	525	3	0.57	399	76	85	16.19	16	3.05
91104	665	3	0.45	539	81.05	88	13.23	17	2.56
91105	96	**	**	91	94.79	4	4.17	**	**
91106	335	**	**	295	88.06	23	6.87	8	2.39
91107	444	3	0.68	389	87.61	44	9.91	3	0.68
91108	120	**	**	111	92.5	5	4.17	**	**
91201	317	**	**	284	89.59	26	8.2	3	0.95
91202	238	**	**	224	94.12	13	5.46	**	**
91203	185	**	**	163	88.11	20	10.81	**	**
91204	299	**	**	245	81.94	41	13.71	9	3.01
91205	583	6	1.03	491	84.22	75	12.86	9	1.54
91206	362	**	**	321	88.67	36	9.94	3	0.83
91207	115	**	**	108	93.91	6	5.22	**	**
91208	212	**	**	196	92.45	8	3.77	**	**
91214	316	**	**	288	91.14	23	7.28	**	**
91242	**	**	**	**	**	**	**	**	**
91243	**	**	**	**	**	**	**	**	**
91301	319	**	**	304	95.3	11	3.45	**	**
91302	241	**	**	232	96.27	8	3.32	**	**
91303	523	**	**	458	87.57	52	9.94	10	1.91
91304	796	8	1.01	681	85.55	100	12.56	7	0.88
91306	688	4	0.58	605	87.94	69	10.03	10	1.45
91307	263	**	**	248	94.3	12	4.56	**	**
91311	371	**	**	338	91.11	27	7.28	4	1.08
91316	302	**	**	282	93.38	15	4.97	4	1.32
91321	566	7	1.24	481	84.98	72	12.72	5	0.88

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91323	**	**	**	**	**	**	**	**	**
91324	332	3	0.9	288	86.75	38	11.45	3	0.9
91325	386	3	0.78	324	83.94	54	13.99	3	0.78
91326	291	**	**	264	90.72	23	7.9	3	1.03
91330	4	**	**	3	75	**	**	**	**
91331	2,138	20	0.94	1,727	80.78	341	15.95	46	2.15
91335	1,020	6	0.59	897	87.94	103	10.1	12	1.18
91336	**	**	**	**	**	**	**	**	**
91340	710	6	0.85	571	80.42	115	16.2	17	2.39
91342	1,415	13	0.92	1,164	82.26	212	14.98	23	1.63
91343	1,037	9	0.87	887	85.54	122	11.76	16	1.54
91344	577	4	0.69	524	90.81	43	7.45	5	0.87
91345	259	**	**	227	87.64	29	11.2	**	**
91350	504	**	**	455	90.28	45	8.93	**	**
91351	930	4	0.43	821	88.28	95	10.22	8	0.86
91352	875	9	1.03	688	78.63	156	17.83	21	2.4
91354	293	**	**	277	94.54	13	4.44	**	**
91355	303	**	**	281	92.74	19	6.27	**	**
91356	341	**	**	324	95.01	12	3.52	**	**
91360	**	**	**	**	**	**	**	**	**
91361	62	**	**	61	98.39	**	**	**	**
91362	5	**	**	5	100	**	**	**	**
91364	311	**	**	294	94.53	15	4.82	**	**
91367	445	**	**	428	96.18	15	3.37	**	**
91381	170	**	**	159	93.53	8	4.71	3	1.76
91384	245	**	**	227	92.65	17	6.94	**	**
91401	688	4	0.58	583	84.74	88	12.79	10	1.45
91402	1,439	15	1.04	1,177	81.79	214	14.87	31	2.15
91403	269	**	**	255	94.8	12	4.46	**	**
91405	1,080	12	1.11	903	83.61	151	13.98	12	1.11
91406	929	6	0.65	815	87.73	94	10.12	14	1.51
91411	449	5	1.11	393	87.53	40	8.91	11	2.45
91415	**	**	**	**	**	**	**	**	**
91423	351	**	**	332	94.59	17	4.84	**	**
91436	135	**	**	127	94.07	6	4.44	**	**
91501	239	**	**	221	92.47	16	6.69	**	**
91502	183	**	**	164	89.62	14	7.65	4	2.19
91504	313	**	**	286	91.37	22	7.03	4	1.28
91505	361	**	**	337	93.35	21	5.82	3	0.83
91506	201	**	**	178	88.56	20	9.95	**	**
91532	**	**	**	**	**	**	**	**	**

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics



# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
91601	599	5	0.83	501	83.64	85	14.19	7	1.17
91602	184	**	**	169	91.85	11	5.98	**	**
91604	263	**	**	249	94.68	7	2.66	**	**
91605	1,081	9	0.83	879	81.31	173	16	17	1.57
91606	785	7	0.89	660	84.08	97	12.36	17	2.17
91607	364	3	0.82	320	87.91	31	8.52	8	2.2
91640	**	**	**	**	**	**	**	**	**
91671	**	**	**	**	**	**	**	**	**
91700	**	**	**	**	**	**	**	**	**
91701	**	**	**	**	**	**	**	**	**
91702	1,205	7	0.58	973	80.75	202	16.76	21	1.74
91704	**	**	**	**	**	**	**	**	**
91706	1,653	10	0.6	1,371	82.94	229	13.85	34	2.06
91709	8	**	**	7	87.5	**	**	**	**
91710	3	**	**	**	**	**	**	**	**
91711	295	**	**	264	89.49	24	8.14	3	1.02
91713	**	**	**	**	**	**	**	**	**
91719	**	**	**	**	**	**	**	**	**
91720	**	**	**	**	**	**	**	**	**
91721	**	**	**	**	**	**	**	**	**
91722	568	3	0.53	489	86.09	61	10.74	12	2.11
91723	281	**	**	238	84.7	40	14.23	3	1.07
91724	324	**	**	274	84.57	41	12.65	3	0.93
91730	**	**	**	**	**	**	**	**	**
91731	616	**	**	522	84.74	77	12.5	11	1.79
91732	1,464	19	1.3	1,234	84.29	182	12.43	22	1.5
91733	1,026	8	0.78	904	88.11	95	9.26	15	1.46
91740	365	**	**	321	87.95	32	8.77	6	1.64
91741	247	**	**	221	89.47	22	8.91	**	**
91744	1,770	15	0.85	1,480	83.62	228	12.88	39	2.2
91745	635	**	**	564	88.82	53	8.35	12	1.89
91746	564	4	0.71	474	84.04	72	12.77	9	1.6
91748	637	3	0.47	546	85.71	69	10.83	9	1.41
91750	398	**	**	359	90.2	29	7.29	7	1.76
91754	463	4	0.86	406	87.69	39	8.42	9	1.94
91755	306	**	**	275	89.87	22	7.19	5	1.63
91760	**	**	**	**	**	**	**	**	**
91761	**	**	**	**	**	**	**	**	**
91762	**	**	**	**	**	**	**	**	**
91763	**	**	**	**	**	**	**	**	**
91764	**	**	**	**	**	**	**	**	**

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics

# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
91765	518	3	0.58	466	89.96	37	7.14	7	1.35
91766	1,460	16	1.1	1,128	77.26	264	18.08	46	3.15
91767	981	8	0.82	790	80.53	155	15.8	22	2.24
91768	668	4	0.6	531	79.49	109	16.32	20	2.99
91770	957	4	0.42	863	90.18	76	7.94	12	1.25
91773	390	**	**	350	89.74	34	8.72	**	**
91775	305	**	**	277	90.82	18	5.9	5	1.64
91776	605	**	**	535	88.43	60	9.92	3	0.5
91780	412	5	1.21	374	90.78	28	6.8	**	**
91781	**	**	**	**	**	**	**	**	**
91786	3	**	**	3	100	**	**	**	**
91789	443	3	0.68	394	88.94	33	7.45	7	1.58
91790	748	8	1.07	645	86.23	78	10.43	10	1.34
91791	392	**	**	341	86.99	43	10.97	5	1.28
91792	545	3	0.55	460	84.4	66	12.11	11	2.02
91801	819	5	0.61	729	89.01	68	8.3	11	1.34
91803	480	4	0.83	423	88.12	41	8.54	7	1.46
91805	**	**	**	**	**	**	**	**	**
91825	**	**	**	**	**	**	**	**	**
92103	**	**	**	**	**	**	**	**	**
92316	**	**	**	**	**	**	**	**	**
92336	**	**	**	**	**	**	**	**	**
92346	**	**	**	**	**	**	**	**	**
92376	**	**	**	**	**	**	**	**	**
92404	**	**	**	**	**	**	**	**	**
92503	**	**	**	**	**	**	**	**	**
92550	**	**	**	**	**	**	**	**	**
92610	**	**	**	**	**	**	**	**	**
92630	**	**	**	**	**	**	**	**	**
92646	**	**	**	**	**	**	**	**	**
92648	**	**	**	**	**	**	**	**	**
92704	**	**	**	**	**	**	**	**	**
92705	**	**	**	**	**	**	**	**	**
92706	**	**	**	**	**	**	**	**	**
92806	**	**	**	**	**	**	**	**	**
92821	**	**	**	**	**	**	**	**	**
92831	**	**	**	**	**	**	**	**	**
93033	**	**	**	**	**	**	**	**	**
93063	3	**	**	3	100	**	**	**	**
93065	**	**	**	**	**	**	**	**	**
93105	**	**	**	**	**	**	**	**	**

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics

# Entry Into Prenatal Care By Zip Code\*

Los Angeles County, 1998

\* Los Angeles zip codes as of April 1999.

Zip Code	Total Births	Number No Prenatal Care	Percent No Prenatal Care	1st Trimester Prenatal Care	% 1st Trimester Prenatal Care	2nd Trimester Prenatal Care	% 2nd Trimester Prenatal Care	3rd Trimester Prenatal Care	% 3rd Trimester Prenatal Care
93436	**	**	**	**	**	**	**	**	**
93510	65	**	**	59	90.77	5	7.69	**	**
93523	**	**	**	**	**	**	**	**	**
93532	34	**	**	32	94.12	**	**	**	**
93534	613	10	1.63	497	81.08	90	14.68	16	2.61
93535	897	4	0.45	731	81.49	141	15.72	21	2.34
93536	516	**	**	443	85.85	63	12.21	7	1.36
93543	139	4	2.88	103	74.1	30	21.58	**	**
93544	10	**	**	7	70	3	30	**	**
93550	1,249	14	1.12	959	76.78	245	19.62	26	2.08
93551	428	**	**	374	87.38	45	10.51	6	1.4
93552	443	4	0.9	372	83.97	59	13.32	6	1.35
93553	23	**	**	19	82.61	4	17.39	**	**
93591	84	**	**	69	82.14	12	14.29	3	3.57

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Adequacy of prenatal care

**DEFINITION:** The percent of live born infants whose mothers did not receive adequate prenatal care as defined by the Kessner Index

**NUMERATOR:** The number of live births to women who received "not adequate" care (as defined by the Kessner Index\*), by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:** None

**RISK FACTORS:** Inadequate Prenatal Care

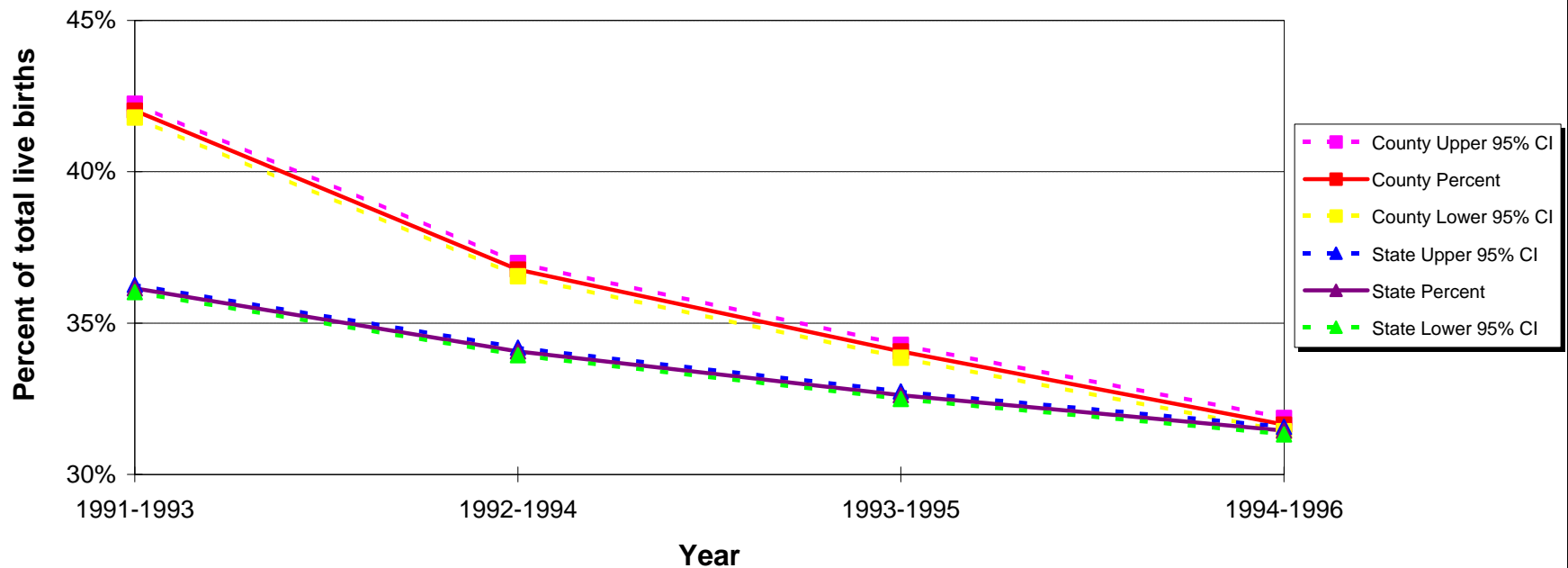
Low income; young maternal age/teen pregnancy; low maternal education level; race/ethnicity (African American, Hispanic, American Indian/Alaska Native); high parity; maternal substance abuse; lack of health insurance; lack of obstetrical providers

	California				LA County				Three Year Average	
	Inadequate Prenatal Care		95% Confidence Interval		Inadequate Prenatal Care		95% Confidence Interval		DENOMINATOR: Live Births	
Three Year Average	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	California	LA County
1991-1993	216,217	36.15%	36.02%	36.27%	78,419	42.02%	41.80%	42.24%	598,183	186,619
1992-1994	198,968	34.06%	33.94%	34.18%	69,559	36.77%	36.55%	36.99%	584,118	189,172
1993-1995	185,145	32.62%	32.50%	32.74%	61,887	34.07%	33.85%	34.29%	567,581	181,654
1994-1996	173,685	31.45%	31.33%	31.57%	55,304	31.65%	31.43%	31.87%	552,296	174,743

**Source:** County Health Status Profiles, 1995-1998

**Notes:** \* The Kessner Index takes into account three factors: month in which prenatal care begin, number of prenatal care visits, and length of gestation. "Not adequate" prenatal care includes intermediate, inadequate, and unknown adequacy of care. Although many experts believe that other indices may better predict adverse outcomes (e.g. Kotelchuck APNCU), National Center for Health Statistics reports adequacy by the Kessner index only. This measure (based on natality statistics) excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

**Percent of Total Live Births Whose Mothers Received  
"Not-Adequate" Prenatal Care as Indicated by Kessner Index  
California vs. Los Angeles County  
Three Year Averages: 1991 through 1996**

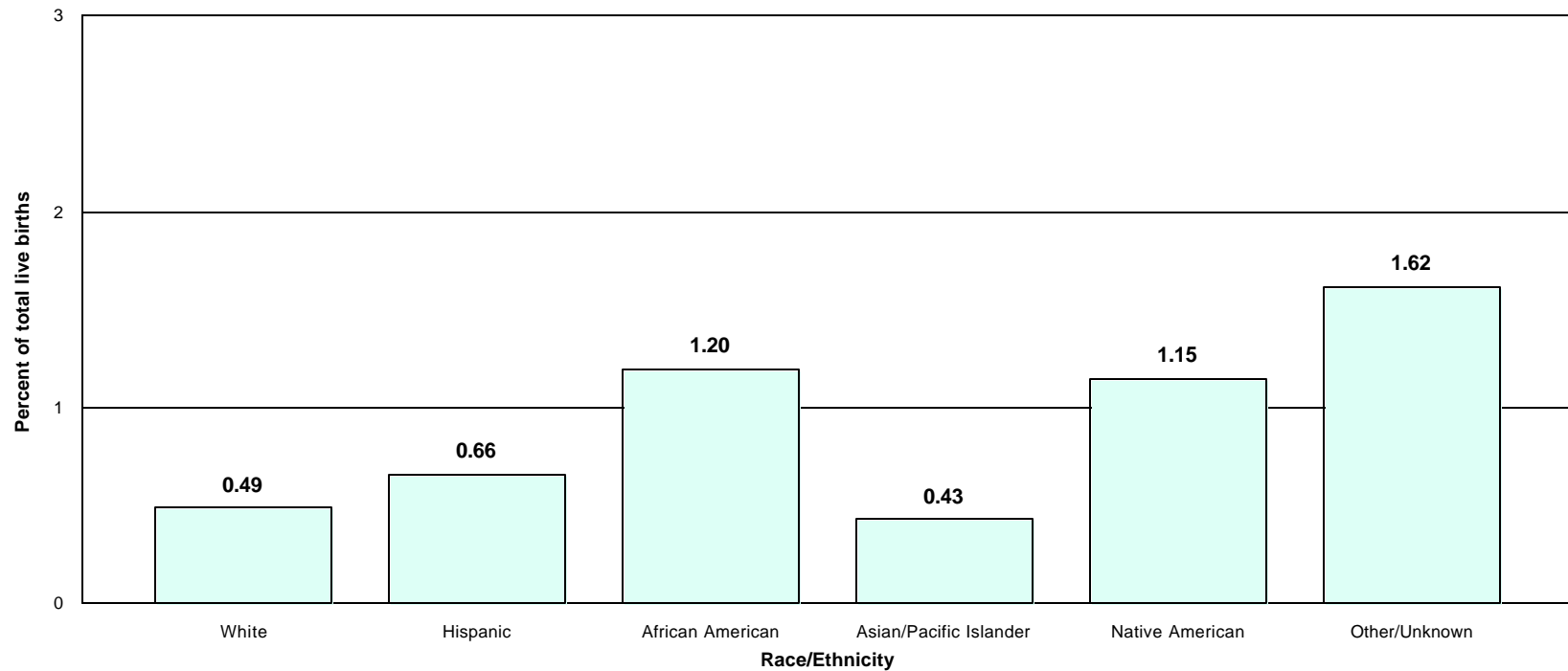


**Source:** County Health Status Profiles, 1995-1998

**Notes:** \* The Kessner Index takes into account three factors: month in which prenatal care begin, number of prenatal care visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

### Live Births to Mothers with No Prenatal Care, as Percent of Total Live Births, by Mother's Race/Ethnicity\*

Los Angeles County, 1998



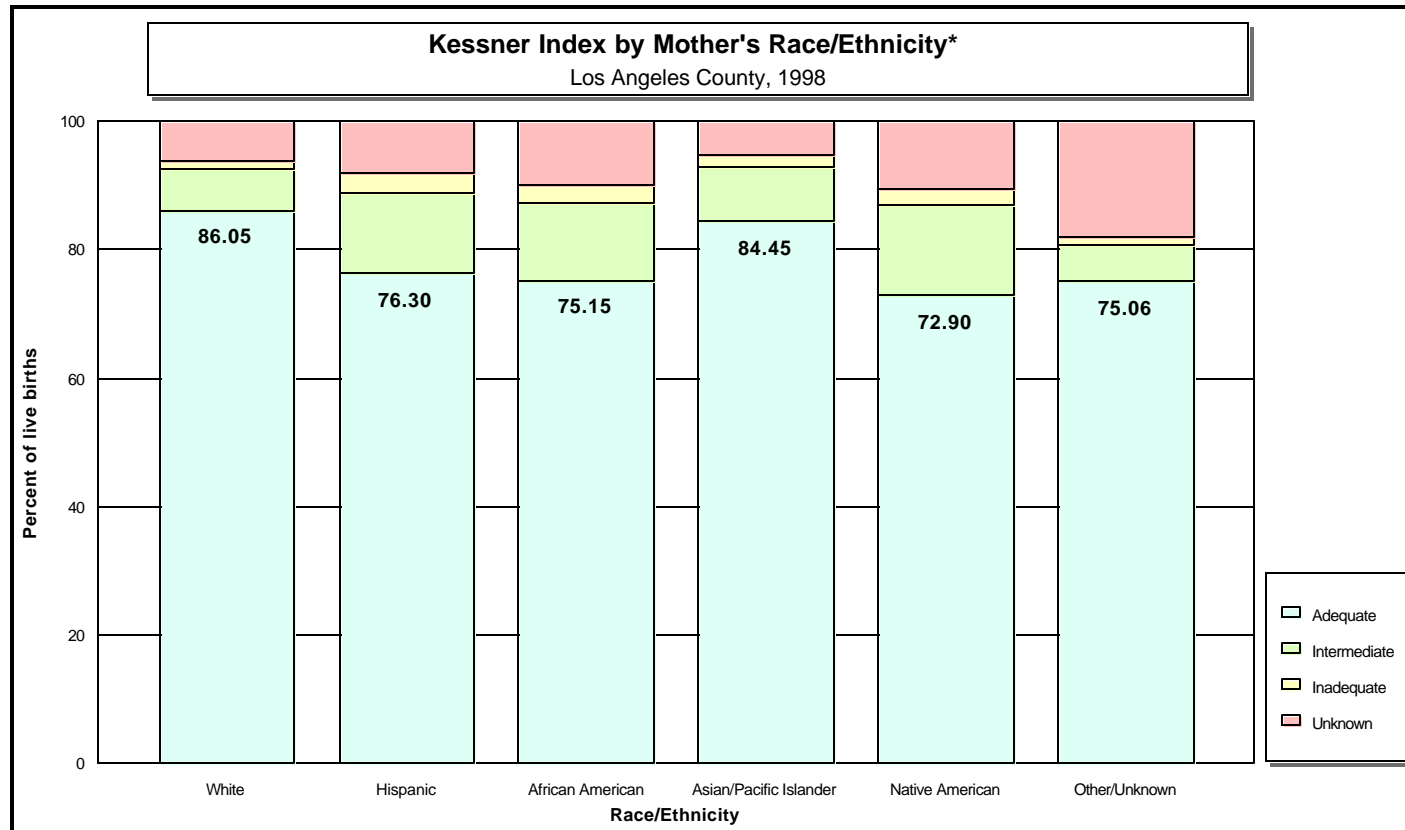
	Race/Ethnicity											
	White		Hispanic		African American		Asian**/Pacific Islander		Native American		Other/Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
No PNC	151	0.49	650	0.66	171	1.20	64	0.43	3	1.15	7	1.62
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00

\* White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity  
Hispanic includes any race category

\*\* Filipino is included in Asian

Note: PNC = 'Prenatal Care'

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



Race/Ethnicity												
White			Hispanic		African American		Asian**/Pacific Islander		Native American		Other/Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Adequate	26,348	86.05	74,832	76.30	10,706	75.15	12,640	84.45	191	72.90	325	75.06
Intermediate	1,954	6.38	12,293	12.53	1,716	12.05	1,246	8.32	37	14.12	25	5.77
Inadequate	409	1.34	3,042	3.10	419	2.94	301	2.01	6	2.29	5	1.15
Unknown	1,910	6.24	7,907	8.06	1,405	9.86	781	5.22	28	10.69	78	18.01
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00

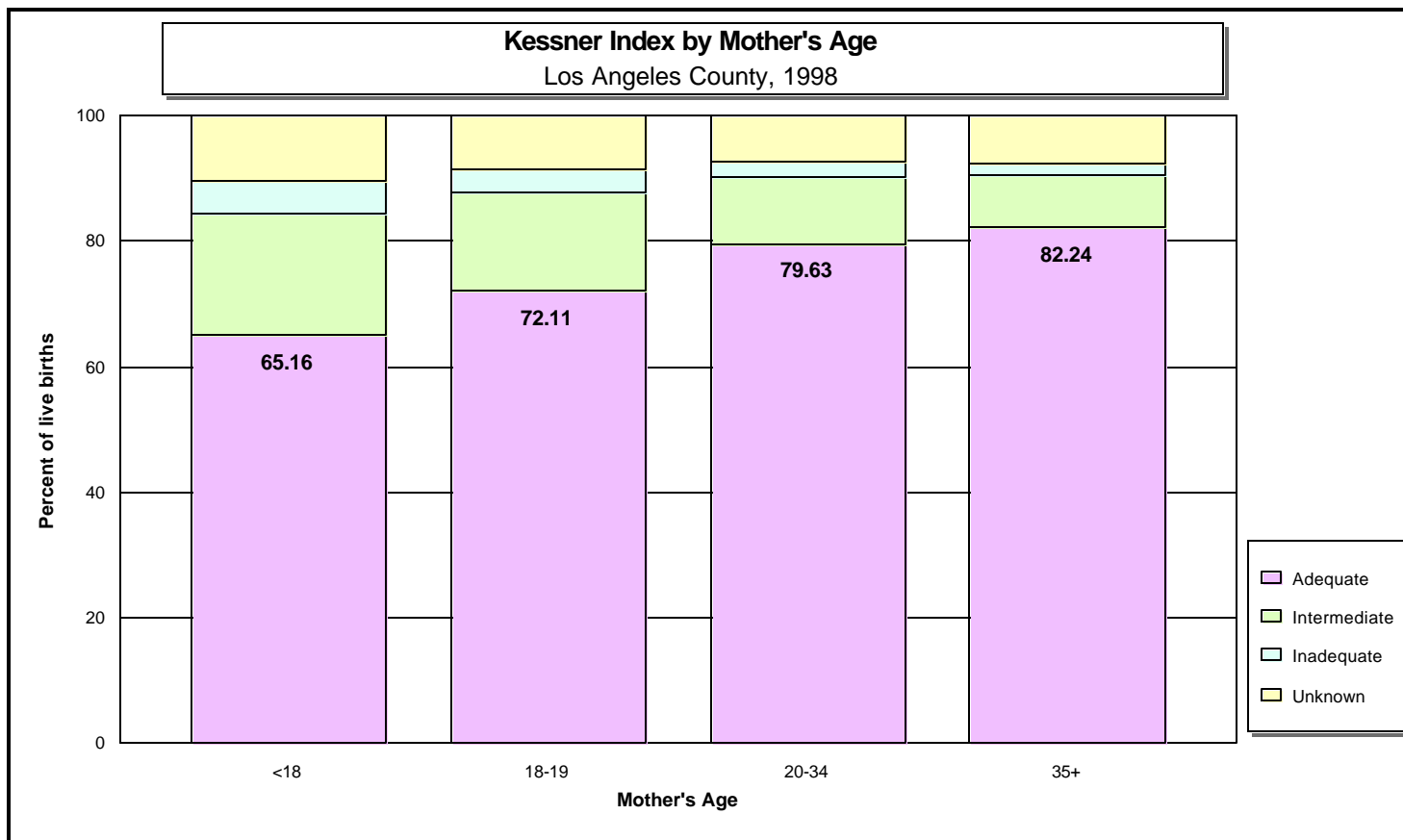
\* White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity

Hispanic includes any race category

\*\* Filipino is included in Asian

Note: The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

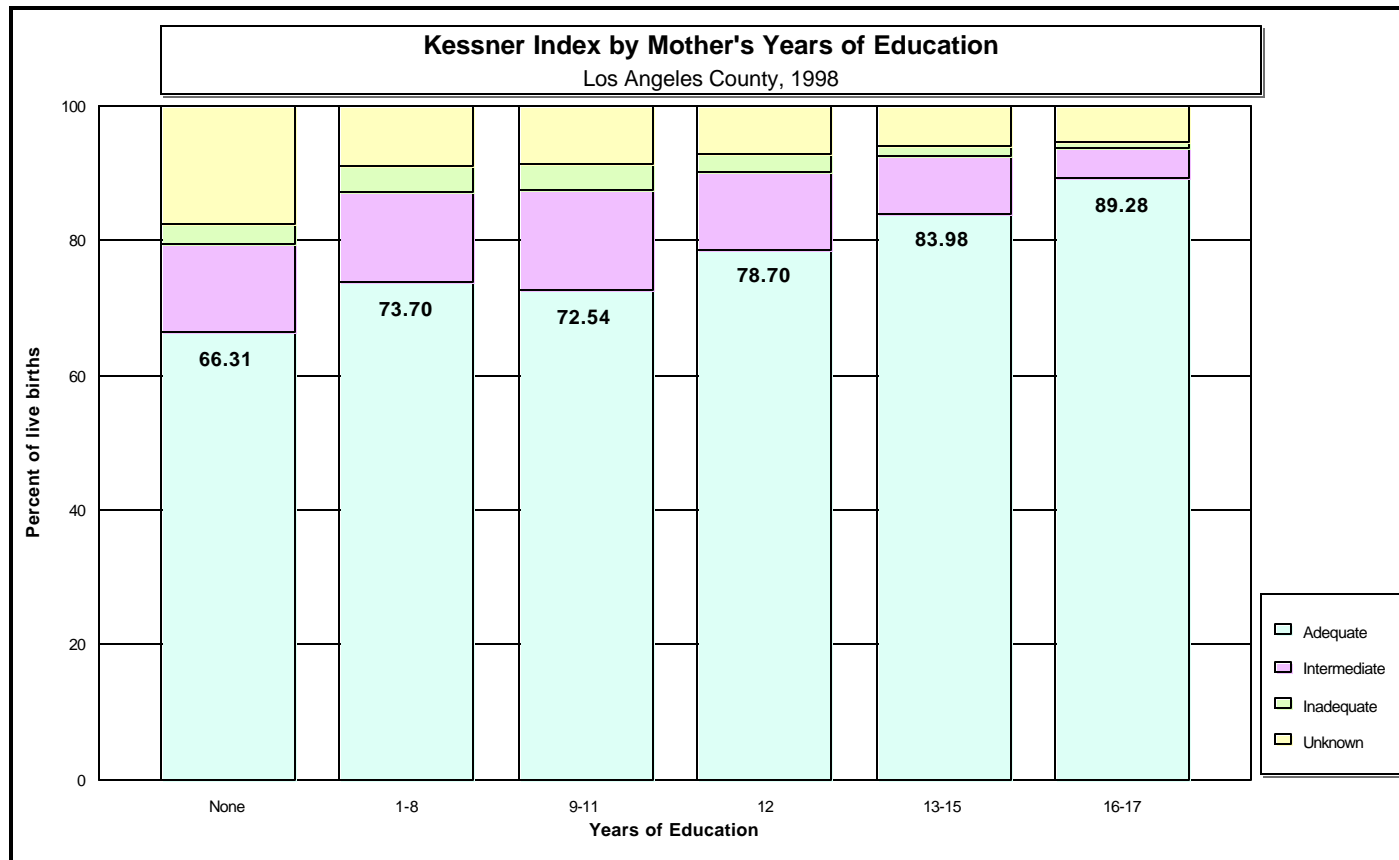


	Mother's Age									
	< 18		18 - 19		20 - 34		35+		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Adequate	4,631	65.16	8,042	72.11	92,764	79.63	19,600	82.24	5	25.00
Intermediate	1,375	19.35	1,731	15.52	12,193	10.47	1,969	8.26	3	15.00
Inadequate	363	5.11	430	3.86	2,926	2.51	463	1.94	0	0.00
Unknown	738	10.38	950	8.52	8,608	7.39	1,801	7.56	12	60.00
Total	7,107	100.00	11,153	100.00	116,491	100.00	23,833	100.00	20	100.00

Note: The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics





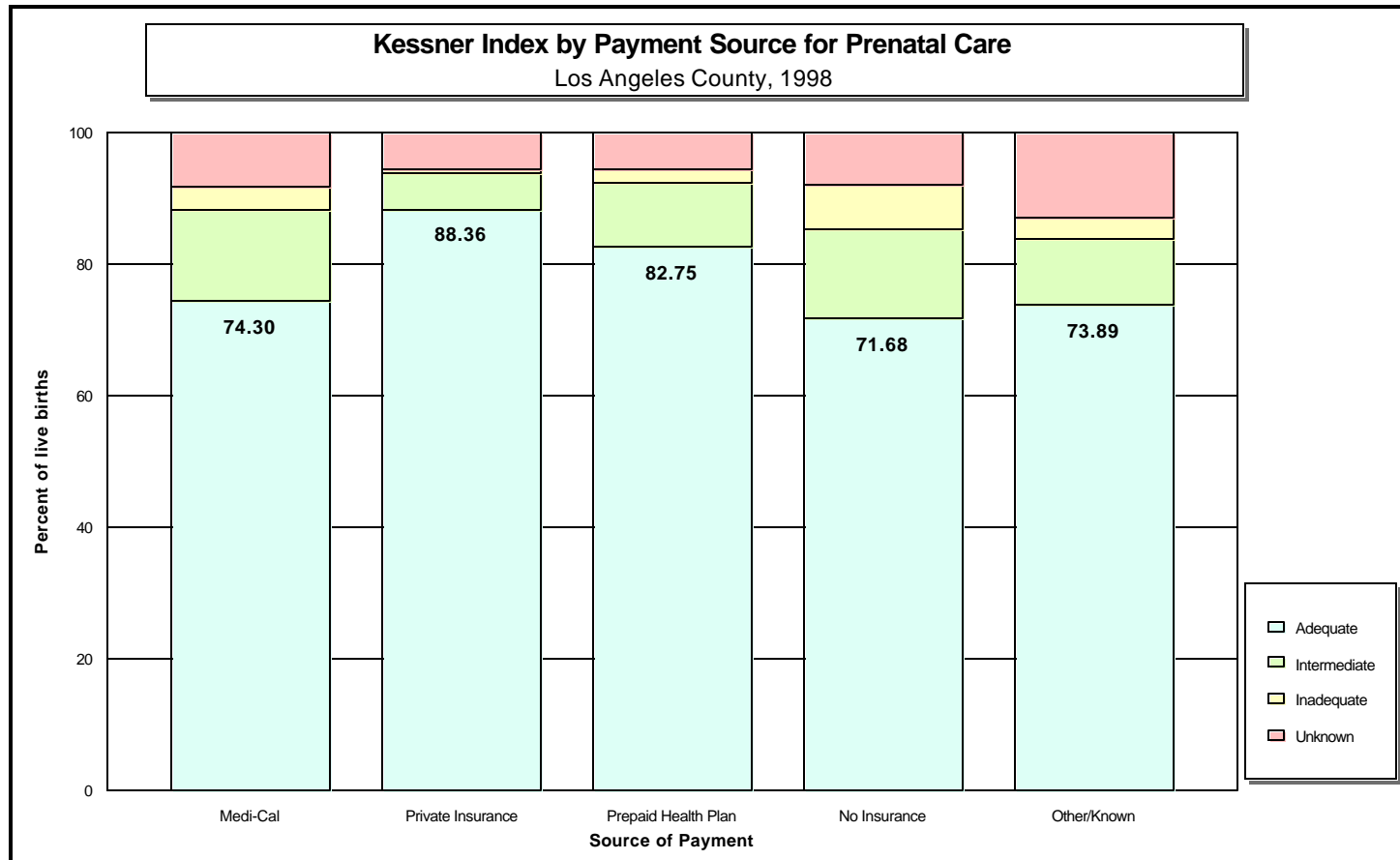
	Years of Education													
	None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Adequate	368	66.31	18,192	73.70	25,013	72.54	34,791	78.70	22,477	83.98	22,918	89.28	1,283	57.20
Intermediate	73	13.15	3,353	13.58	5,109	14.82	5,058	11.44	2,267	8.47	1,143	4.45	268	11.95
Inadequate	17	3.06	937	3.80	1,350	3.92	1,136	2.57	421	1.57	233	0.91	88	3.92
Unknown	97	17.48	2,202	8.92	3,008	8.72	3,223	7.29	1,599	5.97	1,376	5.36	604	26.93
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	26,764	100.00	25,670	100.00	2,243	100.00

Note: Year '17' = mothers who attained college degree or above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

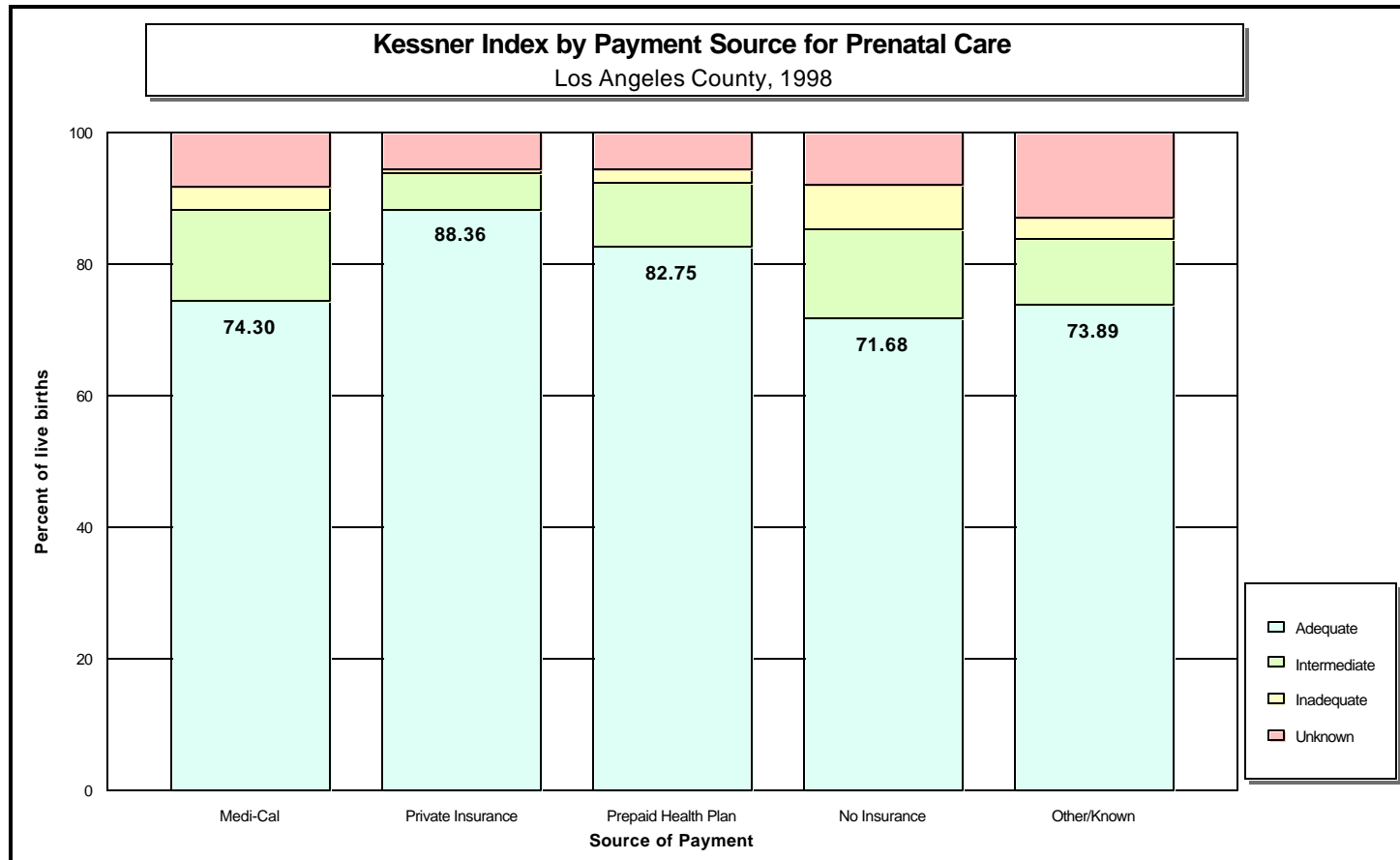
Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



	Source											
	Medi-Cal		Private Insurance		Prepaid Health Plan		No Insurance		Other/Unknown		No Prenatal Care	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Adequate	55,331	74.30	24,077	88.36	41,709	82.75	3,076	71.68	849	73.89	0	0.00
Intermediate	10,291	13.82	1,456	5.34	4,824	9.57	586	13.66	114	9.92	0	0.00
Inadequate	2,637	3.54	224	0.82	989	1.96	293	6.83	37	3.22	2	0.19
Unknown	6,209	8.34	1,491	5.47	2,880	5.71	336	7.83	149	12.97	1,044	99.81
Total	74,468	100.00	27,248	100.00	50,402	100.00	4,291	100.00	1,149	100.00	1,046	100.00

Note: The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



	Source											
	Medi-Cal		Private Insurance		Prepaid Health Plan		No Insurance		Other/Unknown		No Prenatal Care	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Adequate	55,331	74.30	24,077	88.36	41,709	82.75	3,076	71.68	849	73.89	0	0.00
Intermediate	10,291	13.82	1,456	5.34	4,824	9.57	586	13.66	114	9.92	0	0.00
Inadequate	2,637	3.54	224	0.82	989	1.96	293	6.83	37	3.22	2	0.19
Unknown	6,209	8.34	1,491	5.47	2,880	5.71	336	7.83	149	12.97	1,044	99.81
Total	74,468	100.00	27,248	100.00	50,402	100.00	4,291	100.00	1,149	100.00	1,046	100.00

Note: The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# Kessner Index by Zip Code\*

Los Angeles County, 1998

\* Los Angeles County zip codes as of April 1999

Zip Code	Total Births	Number Inadequate Kessner Index	Percent Inadequate Kessner Index	Number Intermediate Kessner Index	Percent Intermediate Kessner Index	Number Adequate Kessner Index	Percent Adequate Kessner Index	Number Not-Adequate Kessner Index	Percent Not-Adequate Kessner Index	Number Unknown Kessner Index	Percent Unknown Kessner Index
0	16	**	**	5	31.25	8	50.00	5	31.25	**	**
39572	**	**	**	**	**	**	**	**	**	**	**
39577	**	**	**	**	**	**	**	**	**	**	**
90000	**	**	**	**	**	**	**	**	**	**	**
90001	1,478	37	2.50	172	11.64	1,024	69.28	454	30.72	245	16.58
90002	1,034	30	2.90	120	11.61	773	74.76	261	25.24	111	10.74
90003	1,438	68	4.73	177	12.31	998	69.40	440	30.60	195	13.56
90004	1,141	29	2.54	132	11.57	910	79.75	231	20.25	70	6.13
90005	826	20	2.42	94	11.38	656	79.42	170	20.58	56	6.78
90006	1,262	36	2.85	148	11.73	951	75.36	311	24.64	127	10.06
90007	729	20	2.74	94	12.89	504	69.14	225	30.86	111	15.23
90008	473	20	4.23	45	9.51	352	74.42	121	25.58	56	11.84
90011	2,805	119	4.24	397	14.15	1,890	67.38	915	32.62	399	14.22
90012	253	9	3.56	25	9.88	197	77.87	56	22.13	22	8.70
90013	27	**	**	4	14.81	18	66.67	9	33.33	5	18.52
90014	22	**	**	3	13.64	17	77.27	3	13.64	**	**
90015	356	8	2.25	63	17.70	243	68.26	113	31.74	42	11.80
90016	760	26	3.42	104	13.68	537	70.66	223	29.34	93	12.24
90017	423	13	3.07	62	14.66	309	73.05	114	26.95	39	9.22
90018	778	25	3.21	100	12.85	560	71.98	218	28.02	93	11.95
90019	1,046	26	2.49	127	12.14	786	75.14	260	24.86	107	10.23
90020	825	8	0.97	72	8.73	692	83.88	133	16.12	53	6.42
90021	20	**	**	3	15.00	15	75.00	3	15.00	**	**
90022	1,513	74	4.89	202	13.35	1,150	76.01	363	23.99	87	5.75
90023	1,143	33	2.89	165	14.44	881	77.08	262	22.92	64	5.60
90024	260	3	1.15	10	3.85	228	87.69	32	12.31	19	7.31
90025	427	**	**	23	5.39	370	86.65	55	12.88	32	7.49
90026	1,257	45	3.58	166	13.21	966	76.85	291	23.15	80	6.36
90027	533	11	2.06	60	11.26	422	79.17	111	20.83	40	7.50
90028	377	13	3.45	48	12.73	294	77.98	83	22.02	22	5.84
90029	748	21	2.81	79	10.56	612	81.82	136	18.18	36	4.81
90031	714	16	2.24	85	11.90	562	78.71	152	21.29	51	7.14
90032	836	24	2.87	103	12.32	638	76.32	198	23.68	71	8.49
90033	1,145	41	3.58	176	15.37	852	74.41	293	25.59	76	6.64
90034	889	16	1.80	65	7.31	737	82.90	152	17.10	71	7.99
90035	393	6	1.53	16	4.07	309	78.63	84	21.37	62	15.78
90036	349	4	1.15	21	6.02	294	84.24	55	15.76	30	8.60
90037	1,313	40	3.05	168	12.80	924	70.37	389	29.63	181	13.79
90038	547	13	2.38	54	9.87	446	81.54	101	18.46	34	6.22
90039	451	12	2.66	41	9.09	368	81.60	83	18.40	30	6.65
90040	228	10	4.39	25	10.96	168	73.68	60	26.32	25	10.96
90041	379	14	3.69	47	12.40	291	76.78	88	23.22	27	7.12
90042	1,137	37	3.25	148	13.02	883	77.66	254	22.34	69	6.07
90043	654	14	2.14	96	14.68	486	74.31	168	25.69	58	8.87
90044	1,838	62	3.37	230	12.51	1,367	74.37	471	25.63	179	9.74
90045	597	7	1.17	40	6.70	516	86.43	81	13.57	34	5.70
90046	354	4	1.13	29	8.19	273	77.12	81	22.88	48	13.56
90047	710	27	3.80	91	12.82	521	73.38	189	26.62	71	10.00
90048	200	3	1.50	8	4.00	154	77.00	46	23.00	35	17.50
90049	310	**	**	7	2.26	269	86.77	40	12.90	33	10.65
90056	107	**	**	6	5.61	91	85.05	15	14.02	9	8.41
90057	1,011	29	2.87	116	11.47	790	78.14	221	21.86	76	7.52
90058	88	3	3.41	10	11.36	63	71.59	25	28.41	12	13.64
90059	900	36	4.00	119	13.22	659	73.22	241	26.78	86	9.56

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
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Los Angeles County, 1998

\* Los Angeles County zip codes as of April 1999

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90061	557	19	3.41	56	10.05	428	76.84	129	23.16	54	9.69
90062	550	18	3.27	75	13.64	397	72.18	153	27.82	60	10.91
90063	1,324	80	6.04	210	15.86	928	70.09	396	29.91	106	8.01
90064	314	**	**	17	5.41	274	87.26	39	12.42	22	7.01
90065	867	21	2.42	109	12.57	676	77.97	191	22.03	61	7.04
90066	855	12	1.40	58	6.78	736	86.08	119	13.92	49	5.73
90067	27	**	**	**	**	25	92.59	**	**	**	**
90068	201	**	**	5	2.49	177	88.06	24	11.94	19	9.45
90069	129	**	**	3	2.33	106	82.17	22	17.05	19	14.73
90073	2	**	**	**	**	**	**	**	**	**	**
90077	125	**	**	**	**	114	91.20	10	8.00	10	8.00
90089	**	**	**	**	**	**	**	**	**	**	**
90184	**	**	**	**	**	**	**	**	**	**	**
90201	2,516	91	3.62	276	10.97	1,784	70.91	732	29.09	365	14.51
90210	243	**	**	**	**	198	81.48	43	17.70	43	17.70
90211	80	**	**	**	**	68	85.00	11	13.75	11	13.75
90212	88	**	**	**	**	80	90.91	6	6.82	6	6.82
90220	999	25	2.50	137	13.71	719	71.97	280	28.03	118	11.81
90221	1,347	49	3.64	132	9.80	933	69.27	414	30.73	233	17.30
90222	722	24	3.32	83	11.50	545	75.48	177	24.52	70	9.70
90230	451	11	2.44	47	10.42	356	78.94	95	21.06	37	8.20
90232	177	5	2.82	21	11.86	135	76.27	42	23.73	16	9.04
90240	362	8	2.21	25	6.91	299	82.60	63	17.40	30	8.29
90241	659	15	2.28	66	10.02	523	79.36	136	20.64	55	8.35
90242	767	22	2.87	85	11.08	597	77.84	170	22.16	63	8.21
90245	197	**	**	8	4.06	176	89.34	21	10.66	13	6.60
90246	**	**	**	**	**	**	**	**	**	**	**
90247	819	17	2.08	85	10.38	664	81.07	155	18.93	53	6.47
90248	166	3	1.81	19	11.45	123	74.10	43	25.90	21	12.65
90249	392	12	3.06	47	11.99	303	77.30	89	22.70	30	7.65
90250	1,905	46	2.41	218	11.44	1,498	78.64	407	21.36	143	7.51
90254	211	3	1.42	3	1.42	193	91.47	18	8.53	12	5.69
90255	1,853	72	3.89	206	11.12	1,276	68.86	577	31.14	299	16.14
90256	**	**	**	**	**	**	**	**	**	**	**
90260	614	12	1.95	68	11.07	470	76.55	144	23.45	64	10.42
90262	1,673	64	3.83	201	12.01	1,210	72.33	463	27.67	198	11.84
90263	**	**	**	**	**	**	**	**	**	**	**
90265	179	**	**	4	2.23	154	86.03	25	13.97	21	11.73
90266	447	**	**	3	0.67	411	91.95	34	7.61	31	6.94
90270	684	24	3.51	77	11.26	491	71.78	193	28.22	92	13.45
90272	247	3	1.21	5	2.02	223	90.28	24	9.72	16	6.48
90274	214	**	**	7	3.27	182	85.05	32	14.95	25	11.68
90275	354	**	**	10	2.82	318	89.83	34	9.60	24	6.78
90277	387	4	1.03	14	3.62	342	88.37	45	11.63	27	6.98
90278	595	5	0.84	17	2.86	532	89.41	63	10.59	41	6.89
90280	2,075	64	3.08	230	11.08	1,506	72.58	569	27.42	275	13.25
90286	**	**	**	**	**	**	**	**	**	**	**
90290	71	**	**	3	4.23	64	90.14	7	9.86	4	5.63
90291	353	7	1.98	41	11.61	283	80.17	70	19.83	22	6.23
90292	178	**	**	6	3.37	149	83.71	27	15.17	21	11.80
90293	124	**	**	**	**	115	92.74	8	6.45	8	6.45
90299	**	**	**	**	**	**	**	**	**	**	**
90301	797	25	3.14	75	9.41	631	79.17	166	20.83	66	8.28
90302	589	15	2.55	58	9.85	482	81.83	107	18.17	34	5.77

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Los Angeles County, 1998

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90303	589	23	3.90	74	12.56	448	76.06	141	23.94	44	7.47
90304	719	28	3.89	79	10.99	562	78.16	157	21.84	50	6.95
90305	150	4	2.67	13	8.67	122	81.33	28	18.67	11	7.33
90350	**	**	**	**	**	**	**	**	**	**	**
90401	33	**	**	**	**	30	90.91	**	**	**	**
90402	120	**	**	6	5.00	100	83.33	20	16.67	14	11.67
90403	186	4	2.15	4	2.15	166	89.25	20	10.75	12	6.45
90404	216	6	2.78	22	10.19	178	82.41	38	17.59	10	4.63
90405	257	**	**	10	3.89	230	89.49	26	10.12	16	6.23
90501	699	23	3.29	81	11.59	541	77.40	158	22.60	54	7.73
90502	231	9	3.90	21	9.09	179	77.49	52	22.51	22	9.52
90503	503	3	0.60	27	5.37	431	85.69	72	14.31	42	8.35
90504	333	5	1.50	22	6.61	279	83.78	54	16.22	27	8.11
90505	417	6	1.44	15	3.60	364	87.29	53	12.71	32	7.67
90506	3	**	**	**	**	**	**	**	**	**	**
90601	513	9	1.75	51	9.94	399	77.78	114	22.22	54	10.53
90602	483	9	1.86	43	8.90	358	74.12	125	25.88	73	15.11
90603	232	**	**	9	3.88	199	85.78	31	13.36	22	9.48
90604	649	16	2.47	54	8.32	512	78.89	137	21.11	67	10.32
90605	719	21	2.92	68	9.46	566	78.72	153	21.28	64	8.90
90606	584	16	2.74	50	8.56	445	76.20	139	23.80	73	12.50
90615	**	**	**	**	**	**	**	**	**	**	**
90630	**	**	**	**	**	**	**	**	**	**	**
90631	19	**	**	**	**	16	84.21	3	15.79	3	15.79
90638	587	10	1.70	30	5.11	513	87.39	74	12.61	34	5.79
90639	**	**	**	**	**	**	**	**	**	**	**
90640	1,105	25	2.26	128	11.58	869	78.64	236	21.36	83	7.51
90650	1,976	71	3.59	245	12.40	1,523	77.07	453	22.93	137	6.93
90660	1,111	32	2.88	124	11.16	851	76.60	260	23.40	104	9.36
90670	247	**	**	29	11.74	189	76.52	56	22.67	27	10.93
90701	272	8	2.94	28	10.29	211	77.57	61	22.43	25	9.19
90703	466	10	2.15	37	7.94	402	86.27	64	13.73	17	3.65
90704	44	**	**	**	**	40	90.91	0	0.00	**	**
90706	1,347	47	3.49	168	12.47	1,029	76.39	318	23.61	103	7.65
90710	378	17	4.50	46	12.17	289	76.46	89	23.54	26	6.88
90712	382	**	**	35	9.16	317	82.98	63	16.49	28	7.33
90713	350	**	**	21	6.00	308	88.00	41	11.71	20	5.71
90715	338	13	3.85	49	14.50	256	75.74	82	24.26	20	5.92
90716	377	21	5.57	64	16.98	274	72.68	103	27.32	18	4.77
90717	349	10	2.87	40	11.46	260	74.50	89	25.50	39	11.17
90720	3	**	**	**	**	**	**	**	**	**	**
90723	1,290	40	3.10	167	12.95	846	65.58	444	34.42	237	18.37
90731	1,046	55	5.26	164	15.68	741	70.84	305	29.16	86	8.22
90732	231	5	2.16	18	7.79	201	87.01	30	12.99	7	3.03
90744	1,216	83	6.83	208	17.11	862	70.89	354	29.11	63	5.18
90745	967	39	4.03	117	12.10	733	75.80	234	24.20	78	8.07
90746	321	7	2.18	17	5.30	257	80.06	64	19.94	40	12.46
90800	**	**	**	**	**	**	**	**	**	**	**
90802	660	32	4.85	112	16.97	462	70.00	198	30.00	54	8.18
90803	322	3	0.93	10	3.11	285	88.51	37	11.49	24	7.45
90804	864	29	3.36	144	16.67	609	70.49	255	29.51	82	9.49
90805	1,826	69	3.78	257	14.07	1,317	72.12	509	27.88	183	10.02
90806	1,027	48	4.67	152	14.80	749	72.93	278	27.07	78	7.59
90807	453	14	3.09	43	9.49	371	81.90	82	18.10	25	5.52

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90808	474	7	1.48	24	5.06	415	87.55	59	12.45	28	5.91
90810	626	39	6.23	86	13.74	450	71.88	176	28.12	51	8.15
90812	6	**	**	**	**	5	83.33	**	**	**	**
90813	1,582	93	5.88	319	20.16	1,058	66.88	524	33.12	112	7.08
90814	265	3	1.13	24	9.06	219	82.64	46	17.36	19	7.17
90815	463	10	2.16	22	4.75	396	85.53	67	14.47	35	7.56
90818	**	**	**	**	**	**	**	**	**	**	**
91001	517	5	0.97	51	9.86	403	77.95	114	22.05	58	11.22
91006	343	4	1.17	18	5.25	307	89.50	36	10.50	14	4.08
91007	280	**	**	15	5.36	250	89.29	28	10.00	13	4.64
91010	455	8	1.76	39	8.57	375	82.42	80	17.58	33	7.25
91011	157	**	**	4	2.55	136	86.62	21	13.38	17	10.83
91016	701	10	1.43	50	7.13	590	84.17	111	15.83	51	7.28
91020	90	**	**	13	14.44	74	82.22	13	14.44	**	**
91024	110	**	**	**	**	103	93.64	4	3.64	4	3.64
91030	246	3	1.22	11	4.47	216	87.80	30	12.20	16	6.50
91040	235	7	2.98	21	8.94	199	84.68	36	15.32	8	3.40
91042	384	7	1.82	33	8.59	323	84.11	61	15.89	21	5.47
91101	267	5	1.87	27	10.11	202	75.66	65	24.34	33	12.36
91103	525	18	3.43	71	13.52	359	68.38	166	31.62	77	14.67
91104	665	19	2.86	82	12.33	496	74.59	169	25.41	68	10.23
91105	96	**	**	4	4.17	86	89.58	10	10.42	6	6.25
91106	335	7	2.09	21	6.27	276	82.39	59	17.61	31	9.25
91107	444	4	0.90	37	8.33	369	83.11	75	16.89	34	7.66
91108	120	**	**	5	4.17	105	87.50	13	10.83	8	6.67
91201	317	4	1.26	23	7.26	279	88.01	38	11.99	11	3.47
91202	238	**	**	11	4.62	217	91.18	21	8.82	10	4.20
91203	185	**	**	18	9.73	162	87.57	21	11.35	3	1.62
91204	299	10	3.34	36	12.04	237	79.26	62	20.74	16	5.35
91205	583	9	1.54	74	12.69	472	80.96	111	19.04	28	4.80
91206	362	**	**	33	9.12	309	85.36	51	14.09	18	4.97
91207	115	**	**	6	5.22	102	88.70	13	11.30	7	6.09
91208	212	**	**	8	3.77	193	91.04	17	8.02	9	4.25
91214	316	3	0.95	21	6.65	279	88.29	37	11.71	13	4.11
91242	**	**	**	**	**	**	**	**	**	**	**
91243	**	**	**	**	**	**	**	**	**	**	**
91301	319	3	0.94	10	3.13	295	92.48	24	7.52	11	3.45
91302	241	**	**	8	3.32	224	92.95	17	7.05	9	3.73
91303	523	14	2.68	45	8.60	442	84.51	81	15.49	22	4.21
91304	796	7	0.88	97	12.19	658	82.66	138	17.34	34	4.27
91306	688	14	2.03	64	9.30	584	84.88	104	15.12	26	3.78
91307	263	**	**	10	3.80	241	91.63	20	7.60	10	3.80
91311	371	4	1.08	24	6.47	331	89.22	40	10.78	12	3.23
91316	302	4	1.32	13	4.30	273	90.40	29	9.60	12	3.97
91321	566	13	2.30	63	11.13	463	81.80	103	18.20	27	4.77
91323	**	**	**	**	**	**	**	**	**	**	**
91324	332	4	1.20	37	11.14	277	83.43	55	16.57	14	4.22
91325	386	5	1.30	47	12.18	311	80.57	75	19.43	23	5.96
91326	291	4	1.37	23	7.90	251	86.25	40	13.75	13	4.47
91330	4	**	**	**	**	**	**	**	**	**	**
91331	2,138	64	2.99	315	14.73	1,695	79.28	443	20.72	64	2.99
91335	1,020	17	1.67	97	9.51	866	84.90	154	15.10	40	3.92
91336	**	**	**	**	**	**	**	**	**	**	**
91340	710	31	4.37	98	13.80	562	79.15	148	20.85	19	2.68

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91342	1,415	34	2.40	197	13.92	1,138	80.42	277	19.58	46	3.25
91343	1,037	25	2.41	105	10.13	862	83.12	175	16.88	45	4.34
91344	577	6	1.04	40	6.93	504	87.35	73	12.65	27	4.68
91345	259	**	**	29	11.20	219	84.56	38	14.67	9	3.47
91350	504	**	**	44	8.73	451	89.48	51	10.12	7	1.39
91351	930	12	1.29	91	9.78	813	87.42	117	12.58	14	1.51
91352	875	35	4.00	138	15.77	675	77.14	200	22.86	27	3.09
91354	293	**	**	13	4.44	275	93.86	16	5.46	3	1.02
91355	303	4	1.32	19	6.27	278	91.75	23	7.59	**	**
91356	341	3	0.88	11	3.23	319	93.55	22	6.45	8	2.35
91360	**	**	**	**	**	**	**	**	**	**	**
91361	62	**	**	**	**	60	96.77	**	**	**	**
91362	5	**	**	**	**	5	100.00	**	**	**	**
91364	311	**	**	12	3.86	287	92.28	22	7.07	10	3.22
91367	445	**	**	14	3.15	420	94.38	24	5.39	10	2.25
91381	170	3	1.76	8	4.71	155	91.18	15	8.82	4	2.35
91384	245	**	**	15	6.12	225	91.84	19	7.76	4	1.63
91401	688	16	2.33	76	11.05	569	82.70	119	17.30	27	3.92
91402	1,439	38	2.64	199	13.83	1,147	79.71	292	20.29	55	3.82
91403	269	**	**	12	4.46	242	89.96	27	10.04	15	5.58
91405	1,080	19	1.76	145	13.43	883	81.76	197	18.24	33	3.06
91406	929	21	2.26	85	9.15	797	85.79	132	14.21	26	2.80
91411	449	12	2.67	38	8.46	386	85.97	63	14.03	13	2.90
91415	**	**	**	**	**	**	**	**	**	**	**
91423	351	**	**	17	4.84	316	90.03	35	9.97	18	5.13
91436	135	**	**	6	4.44	112	82.96	22	16.30	16	11.85
91501	239	**	**	14	5.86	216	90.38	22	9.21	8	3.35
91502	183	6	3.28	10	5.46	158	86.34	25	13.66	9	4.92
91504	313	6	1.92	19	6.07	282	90.10	31	9.90	6	1.92
91505	361	4	1.11	20	5.54	333	92.24	28	7.76	4	1.11
91506	201	**	**	20	9.95	174	86.57	25	12.44	5	2.49
91532	**	**	**	**	**	**	**	**	**	**	**
91601	599	9	1.50	81	13.52	486	81.14	113	18.86	23	3.84
91602	184	**	**	10	5.43	158	85.87	24	13.04	14	7.61
91604	263	**	**	7	2.66	237	90.11	25	9.51	18	6.84
91605	1,081	23	2.13	163	15.08	866	80.11	215	19.89	29	2.68
91606	785	25	3.18	89	11.34	647	82.42	138	17.58	24	3.06
91607	364	9	2.47	30	8.24	311	85.44	53	14.56	14	3.85
91640	**	**	**	**	**	**	**	**	**	**	**
91671	**	**	**	**	**	**	**	**	**	**	**
91700	**	**	**	**	**	**	**	**	**	**	**
91701	**	**	**	**	**	**	**	**	**	**	**
91702	1,205	30	2.49	187	15.52	931	77.26	274	22.74	57	4.73
91704	**	**	**	**	**	**	**	**	**	**	**
91706	1,653	37	2.24	207	12.52	1,312	79.37	341	20.63	97	5.87
91709	8	**	**	**	**	7	87.50	**	**	**	**
91710	3	**	**	**	**	**	**	**	**	**	**
91711	295	3	1.02	22	7.46	259	87.80	36	12.20	11	3.73
91713	**	**	**	**	**	**	**	**	**	**	**
91719	**	**	**	**	**	**	**	**	**	**	**
91720	**	**	**	**	**	**	**	**	**	**	**
91721	**	**	**	**	**	**	**	**	**	**	**
91722	568	12	2.11	61	10.74	471	82.92	97	17.08	24	4.23
91723	281	4	1.42	39	13.88	229	81.49	52	18.51	9	3.20

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics



# Kessner Index by Zip Code\*

Los Angeles County, 1998

\* Los Angeles County zip codes as of April 1999

Zip Code	Total Births	Number Inadequate Kessner Index	Percent Inadequate Kessner Index	Number Intermediate Kessner Index	Percent Intermediate Kessner Index	Number Adequate Kessner Index	Percent Adequate Kessner Index	Number Not-Adequate Kessner Index	Percent Not-Adequate Kessner Index	Number Unknown Kessner Index	Percent Unknown Kessner Index
91724	324	4	1.23	39	12.04	266	82.10	58	17.90	15	4.63
91730	**	**	**	**	**	**	**	**	**	**	**
91731	616	10	1.62	65	10.55	492	79.87	124	20.13	49	7.95
91732	1,464	30	2.05	159	10.86	1,168	79.78	296	20.22	107	7.31
91733	1,026	23	2.24	83	8.09	856	83.43	170	16.57	64	6.24
91740	365	8	2.19	29	7.95	309	84.66	56	15.34	19	5.21
91741	247	3	1.21	20	8.10	215	87.04	32	12.96	9	3.64
91744	1,770	45	2.54	194	10.96	1,397	78.93	373	21.07	134	7.57
91745	635	12	1.89	49	7.72	529	83.31	106	16.69	45	7.09
91746	564	12	2.13	58	10.28	451	79.96	113	20.04	43	7.62
91748	637	11	1.73	60	9.42	522	81.95	115	18.05	44	6.91
91750	398	7	1.76	27	6.78	351	88.19	47	11.81	13	3.27
91754	463	9	1.94	37	7.99	397	85.75	66	14.25	20	4.32
91755	306	8	2.61	21	6.86	260	84.97	46	15.03	17	5.56
91760	**	**	**	**	**	**	**	**	**	**	**
91761	**	**	**	**	**	**	**	**	**	**	**
91762	**	**	**	**	**	**	**	**	**	**	**
91763	**	**	**	**	**	**	**	**	**	**	**
91764	**	**	**	**	**	**	**	**	**	**	**
91765	518	9	1.74	33	6.37	444	85.71	74	14.29	32	6.18
91766	1,460	54	3.70	239	16.37	1,095	75.00	365	25.00	72	4.93
91767	981	29	2.96	146	14.88	767	78.19	214	21.81	39	3.98
91768	668	24	3.59	101	15.12	510	76.35	158	23.65	33	4.94
91770	957	15	1.57	70	7.31	845	88.30	112	11.70	27	2.82
91773	390	4	1.03	33	8.46	343	87.95	47	12.05	10	2.56
91775	305	6	1.97	16	5.25	267	87.54	38	12.46	16	5.25
91776	605	5	0.83	55	9.09	517	85.45	88	14.55	28	4.63
91780	412	**	**	25	6.07	360	87.38	50	12.14	25	6.07
91781	**	**	**	**	**	**	**	**	**	**	**
91786	3	**	**	**	**	3	100.00	**	**	**	**
91789	443	7	1.58	30	6.77	372	83.97	71	16.03	34	7.67
91790	748	13	1.74	72	9.63	622	83.16	126	16.84	41	5.48
91791	392	6	1.53	38	9.69	329	83.93	63	16.07	19	4.85
91792	545	15	2.75	61	11.19	448	82.20	97	17.80	21	3.85
91801	819	16	1.95	59	7.20	699	85.35	120	14.65	45	5.49
91803	480	7	1.46	35	7.29	401	83.54	79	16.46	37	7.71
91805	**	**	**	**	**	**	**	**	**	**	**
91825	**	**	**	**	**	**	**	**	**	**	**
92103	**	**	**	**	**	**	**	**	**	**	**
92316	**	**	**	**	**	**	**	**	**	**	**
92336	**	**	**	**	**	**	**	**	**	**	**
92346	**	**	**	**	**	**	**	**	**	**	**
92376	**	**	**	**	**	**	**	**	**	**	**
92404	**	**	**	**	**	**	**	**	**	**	**
92503	**	**	**	**	**	**	**	**	**	**	**
92550	**	**	**	**	**	**	**	**	**	**	**
92610	**	**	**	**	**	**	**	**	**	**	**
92630	**	**	**	**	**	**	**	**	**	**	**
92646	**	**	**	**	**	**	**	**	**	**	**
92648	**	**	**	**	**	**	**	**	**	**	**
92704	**	**	**	**	**	**	**	**	**	**	**
92705	**	**	**	**	**	**	**	**	**	**	**
92706	**	**	**	**	**	**	**	**	**	**	**
92806	**	**	**	**	**	**	**	**	**	**	**
92821	**	**	**	**	**	**	**	**	**	**	**

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics

# Kessner Index by Zip Code\*

Los Angeles County, 1998

\* Los Angeles County zip codes as of April 1999

Zip Code	Total Births	Number Inadequate Kessner Index	Percent Inadequate Kessner Index	Number Intermediate Kessner Index	Percent Intermediate Kessner Index	Number Adequate Kessner Index	Percent Adequate Kessner Index	Number Not-Adequate Kessner Index	Percent Not-Adequate Kessner Index	Number Unknown Kessner Index	Percent Unknown Kessner Index
92831	**	**	**	**	**	**	**	**	**	**	**
93033	**	**	**	**	**	**	**	**	**	**	**
93063	3	**	**	**	**	3	100.00	**	**	**	**
93065	**	**	**	**	**	**	**	**	**	**	**
93105	**	**	**	**	**	**	**	**	**	**	**
93436	**	**	**	**	**	**	**	**	**	**	**
93510	65	**	**	4	6.15	59	90.77	4	6.15	**	**
93523	**	**	**	**	**	**	**	**	**	**	**
93532	34	**	**	**	**	32	94.12	**	**	**	**
93534	613	20	3.26	81	13.21	486	79.28	127	20.72	26	4.24
93535	897	25	2.79	126	14.05	709	79.04	188	20.96	37	4.12
93536	516	7	1.36	60	11.63	434	84.11	82	15.89	15	2.91
93543	139	4	2.88	28	20.14	101	72.66	38	27.34	6	4.32
93544	10	**	**	3	30.00	5	50.00	3	30.00	**	**
93550	1,249	38	3.04	217	17.37	933	74.70	316	25.30	61	4.88
93551	428	7	1.64	41	9.58	364	85.05	64	14.95	16	3.74
93552	443	11	2.48	52	11.74	366	82.62	77	17.38	14	3.16
93553	23	**	**	**	**	19	82.61	**	**	**	**
93591	84	**	**	11	13.10	69	82.14	11	13.10	**	**
95630	**	**	**	**	**	**	**	**	**	**	**
96039	**	**	**	**	**	**	**	**	**	**	**
99999	**	**	**	**	**	**	**	**	**	**	**

\*\*= fewer than 3 observations

Source: Los Angeles County - Department of Health Services, Family Health Programs, Epidemiology Assessment Unit  
1998 births records from the California Department of Health Services, Center for Health Statistics

# **Infant Mortality**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Infant mortality

**DEFINITION:** The number of infant deaths occurring at less than 365 days of age per 1,000 live births

**NUMERATOR:** The number of infant deaths occurring at less than 365 days of age, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

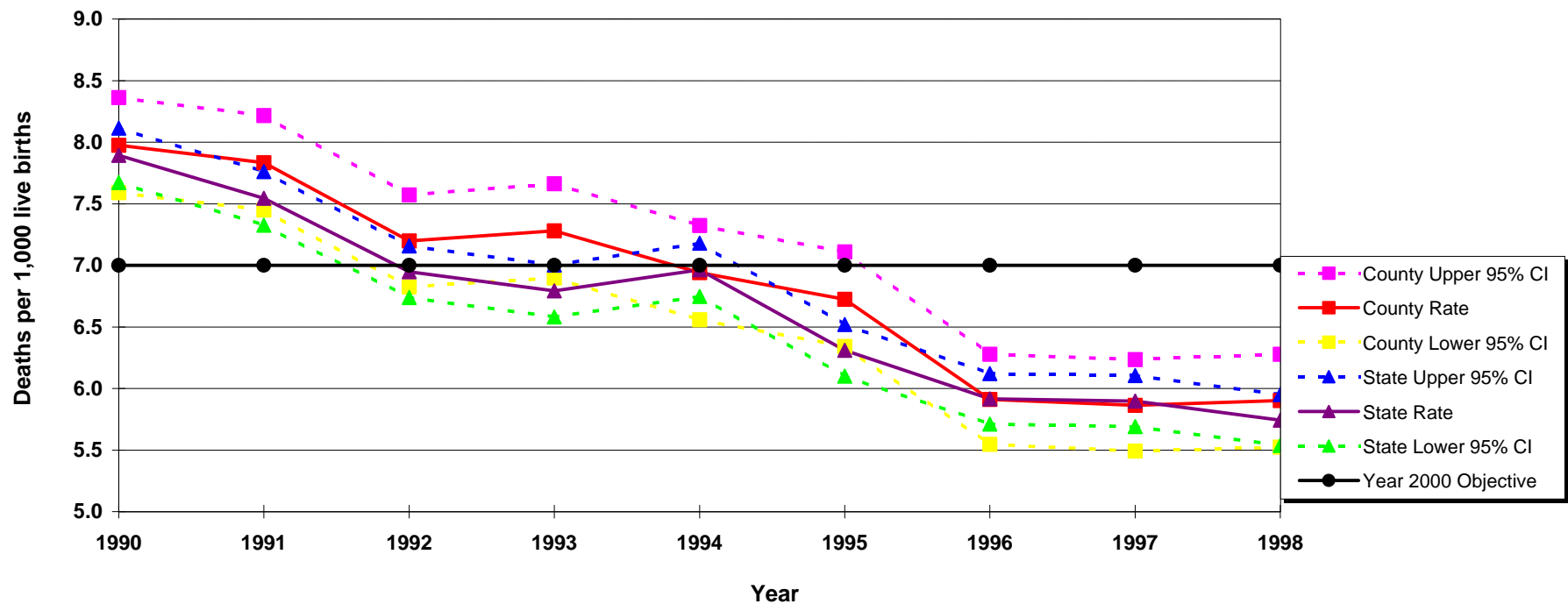
Reduce the infant mortality rate to no more than 7 per 1,000 live births.  
(Baseline: 10.1 per 1,000 live births in 1987) (Objective 14.1)  
No more than 7 infant deaths per 1,000 live births

**RISK FACTORS:** Race/ethnicity; prematurity/disorders related to short gestation; low birth weight; congenital anomalies; young maternal age; low maternal education level; maternal tobacco use; maternal alcohol or substance use/abuse; poor maternal nutrition; inadequate prenatal care; unintended pregnancy; maternal psychosocial problems; maternal medical complications/ chronic illness during pregnancy (including diabetes); pregnancy complications; short interpregnancy interval; injury (including domestic violence); infection; respiratory distress syndrome; family history of SIDS

	California				LA County				DENOMINATOR: Live Births	
	Infant Mortality		95% Confidence Interval		Infant Mortality		95% Confidence Interval			
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper	California	LA County
1990	4,828	7.9	7.7	8.1	1,628	8.0	7.6	8.4	611,666	204,124
1991	4,596	7.5	7.3	7.8	1,588	7.8	7.4	8.2	609,228	202,737
1992	4,174	6.9	6.7	7.2	1,421	7.2	6.8	7.6	600,838	197,415
1993	3,970	6.8	6.6	7.0	1,381	7.3	6.9	7.7	584,483	189,706
1994	3,948	7.0	6.7	7.2	1,252	6.9	6.6	7.3	567,034	180,394
1995	3,478	6.3	6.1	6.5	1,176	6.7	6.3	7.1	551,226	174,862
1996	3,186	5.9	5.7	6.1	999	5.9	5.5	6.3	538,628	168,973
1997	3,091	5.9	5.7	6.1	950	5.9	5.5	6.2	524,174	162,036
1998	2,994	5.7	5.5	5.9	936	5.9	5.5	6.3	521,265	158,604

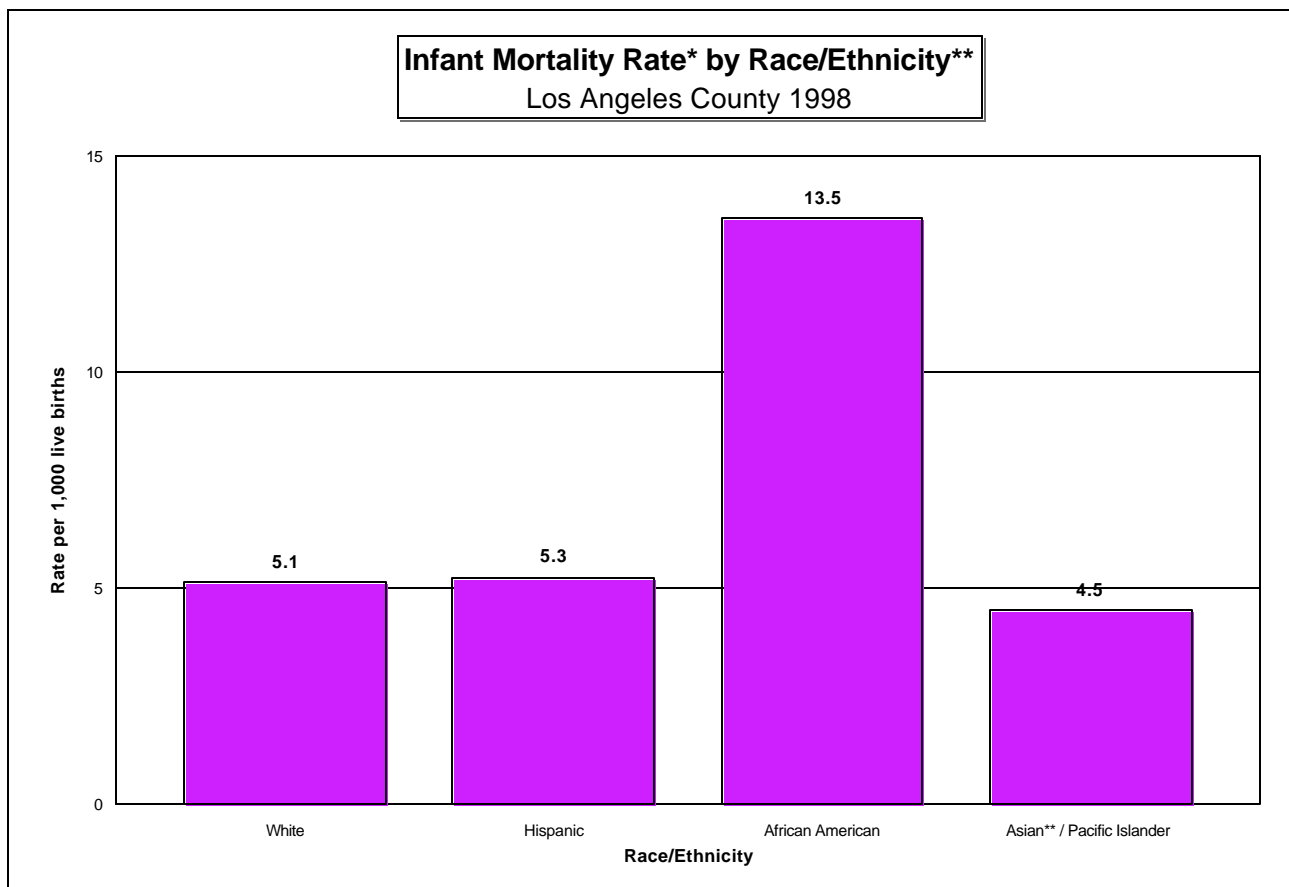
**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics

### Infant Deaths per 1,000 Live Births California vs. Los Angeles County, 1990 - 1998



**Year 2000 Objective:** Reduce the infant mortality rate to no more than 7 per 1,000 live births.

**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics



Los Angeles County, 1998				
Infant Mortality Rate	Number	Rate	95% Confidence Interval	
			Lower	Upper
White	157	5.1	4.3	5.9
Hispanic	515	5.3	4.8	5.7
African American	193	13.5	11.6	15.4
Asian** / Pacific Islander	67	4.5	3.4	5.5
Native American	0	a	a	a
Other / Unknown	4	a	a	a
Total	936	5.9	5.5	6.3

Total Live Births / Race
30,621
98,074
14,246
14,968
262
433
158,604

\*\* White, African American, Native American and other races exclude Hispanic ethnicity  
Hispanic includes any race category  
Filipino is included in Asian  
a: Rates are not calculated if no more than five deaths

Year 2000 Objective: Reduce the infant mortality rate to no more than 7 per 1,000 live births.

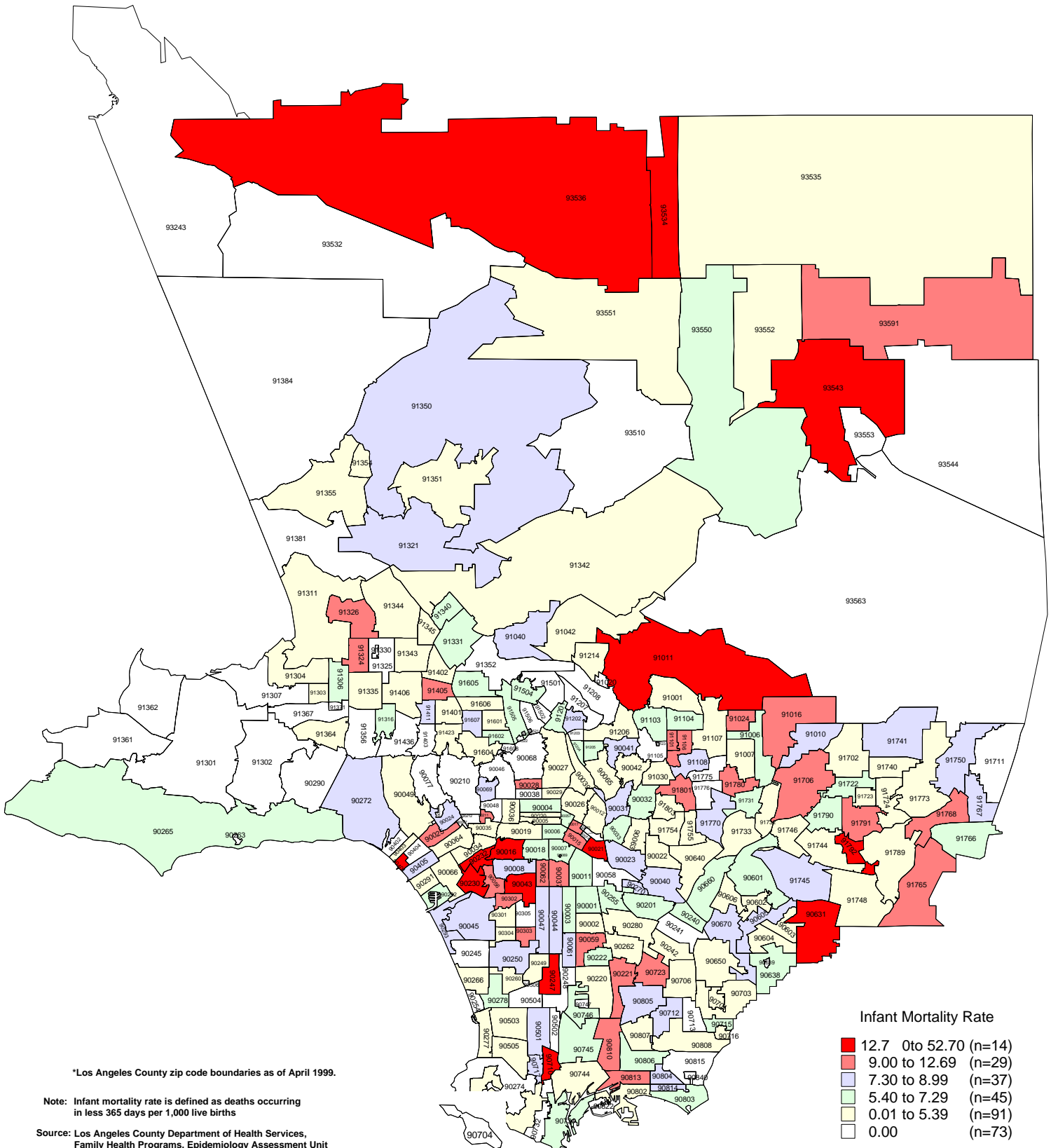
Note: \*Infant mortality rate is defined as deaths occurring less than 365 days per 1,000 live births

Source: 1998 birth and death records from the California Department of Health Services, Center for Health Statistics

Los Angeles County - Department of Health Services

# Infant Mortality Rate by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Note: Infant mortality rate is defined as deaths occurring in less 365 days per 1,000 live births

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

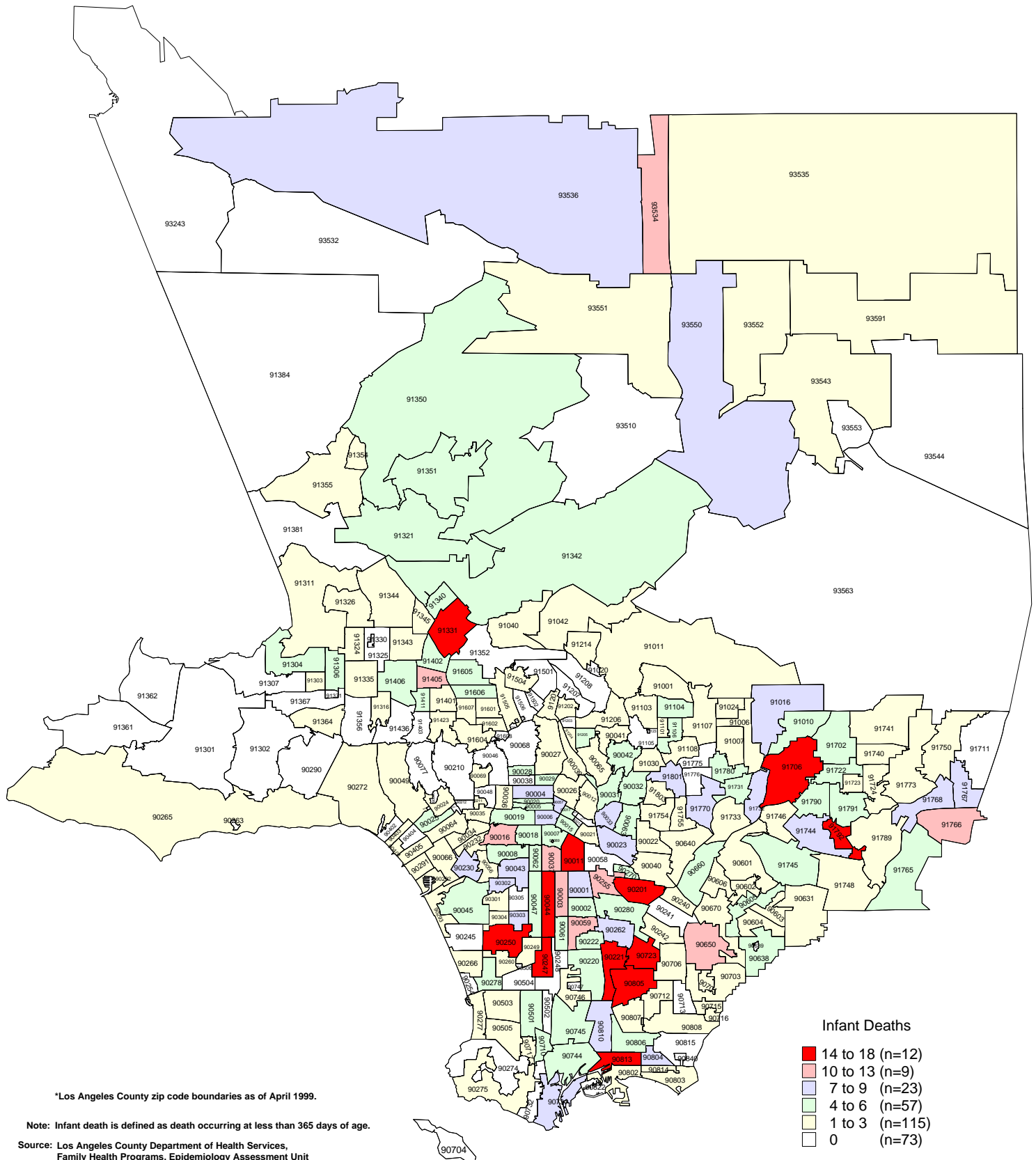
Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

n = total number of zip codes in range

\*\*Year 2000 Objective: Reduce the infant mortality rate to no more than 7 per 1,000 live births.

# Number of Infant Deaths by Zip Code\*

Los Angeles County, 1998





## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Neonatal mortality

**DEFINITION:** The number of infant deaths per 1,000 live births occurring at less than 28 days of age

**NUMERATOR:** The number of infant deaths occurring at less than 28 days of age, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births. (Baseline: 6.5 in 1987) (Objective 14.1d)

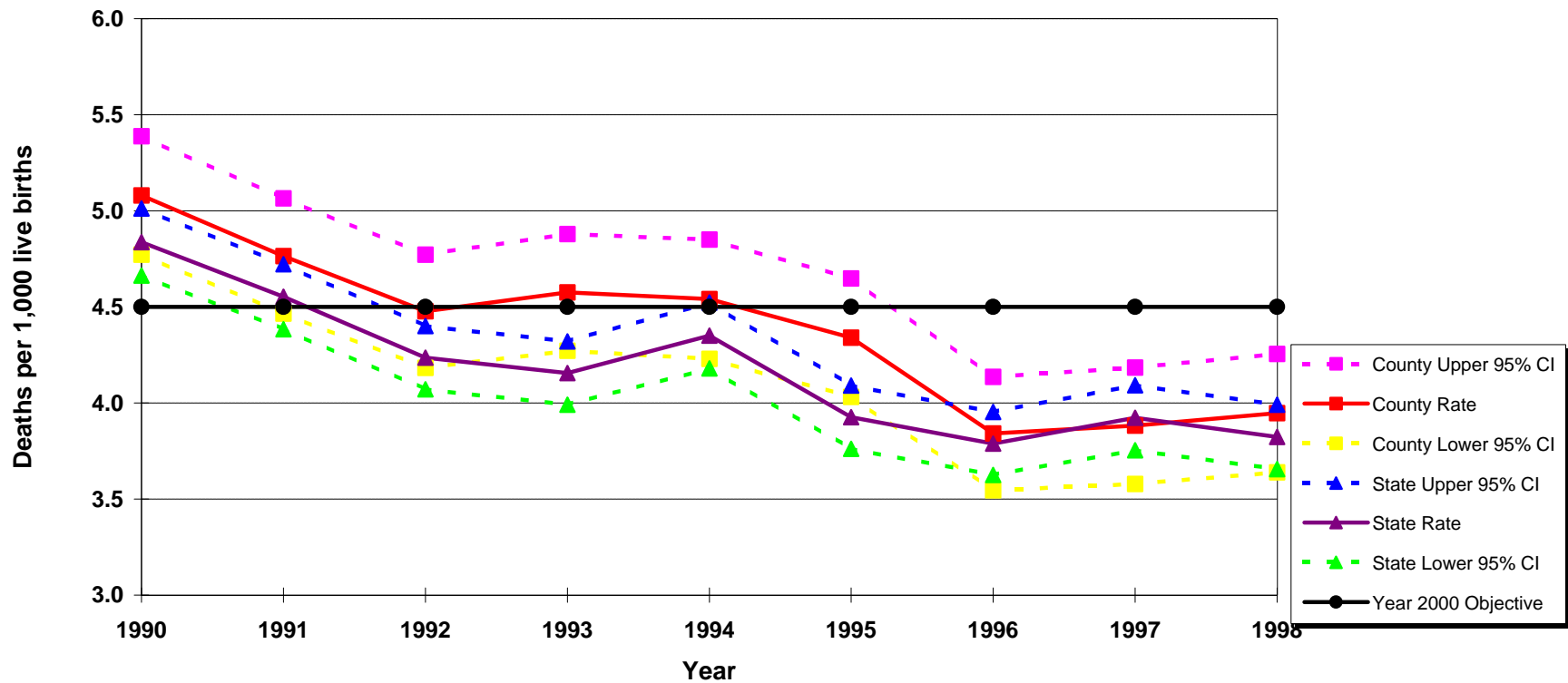
**RISK FACTORS:** Congenital anomalies; respiratory distress syndrome; short gestation; low birthweight; maternal complications; race/ethnicity (African American, Puerto Rican)

See also risk factors for infant mortality.

	California				LA County				DEMOMINATOR: Live Births	
	Neonatal Mortality		95% Confidence Interval		Neonatal Mortality		95% Confidence Interval			
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper	California	LA County
1990	2,959	4.8	4.7	5.0	1,037	5.1	4.8	5.4	611,666	204,124
1991	2,774	4.6	4.4	4.7	966	4.8	4.5	5.1	609,228	202,737
1992	2,545	4.2	4.1	4.4	884	4.5	4.2	4.8	600,838	197,415
1993	2,429	4.2	4.0	4.3	868	4.6	4.3	4.9	584,483	189,706
1994	2,467	4.4	4.2	4.5	819	4.5	4.2	4.9	567,034	180,394
1995	2,164	3.9	3.8	4.1	759	4.3	4.0	4.6	551,226	174,862
1996	2,041	3.8	3.6	4.0	649	3.8	3.5	4.1	538,628	168,973
1997	2,056	3.9	3.8	4.1	629	3.9	3.6	4.2	524,174	162,036
1998	1,993	3.8	3.7	4.0	626	3.9	3.6	4.3	521,265	158,604

**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics

### Neonatal Deaths per 1,000 Live Births California vs. Los Angeles County, 1990 - 1998

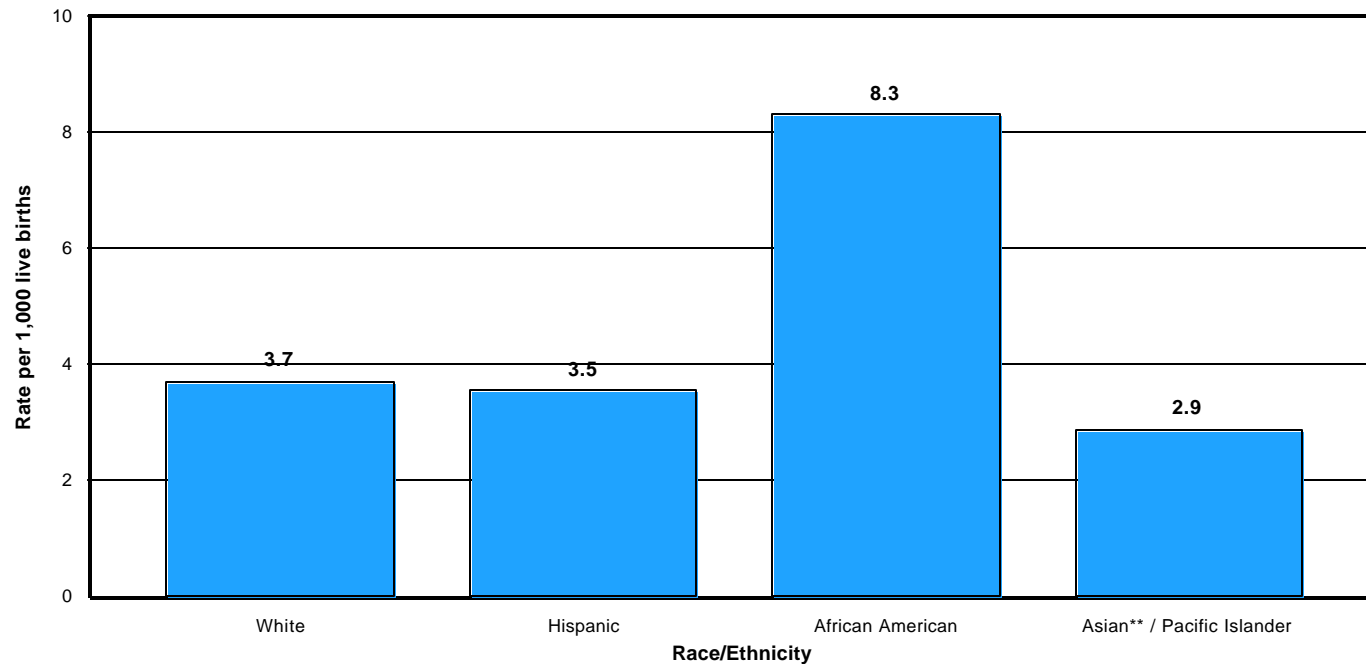


**Year 2000 Objective:** Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics

### Neonatal Mortality Rate\* by Race/Ethnicity\*\*

Los Angeles County, 1998



Los Angeles County, 1998				
Neonatal Mortality Rate			95 % Confidence Interval	
	Number	Rate	Lower	Upper
White	113	3.7	3.0	4.4
Hispanic	348	3.5	3.2	3.9
African American	118	8.3	6.8	9.8
Asian** / Pacific Islander	43	2.9	2.0	3.7
Native American	0	a	a	a
Other / Unknown	4	a	a	a
Total	626	3.9	3.6	4.3

Total Live Births / Race
30,621
98,074
14,246
14,968
262
433
158,604

\* White, African American, Asian, Native American and other races exclude Hispanic ethnicity.  
 Hispanic includes any race category  
 Filipino is included in Asian  
 a: Rates are not calculated if no more than five deaths

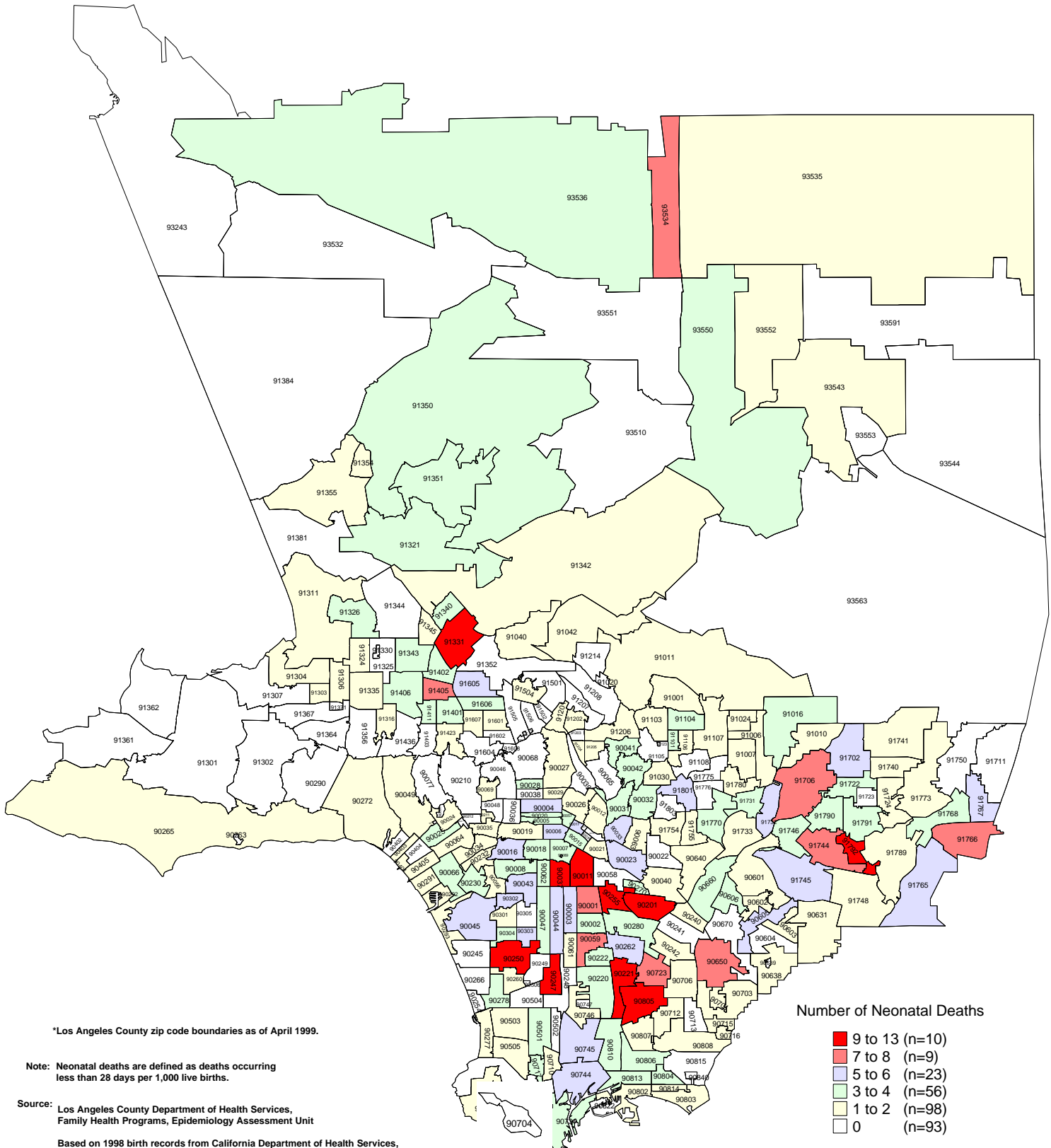
Year 2000 Objective: Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

Note: \*Neonatal mortality rate is defined as deaths less than 28 days per 1,000 live births

Source: 1998 birth and death records from the California Department of Health Services, Center for Health Statistics

# Number of Neonatal Deaths by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

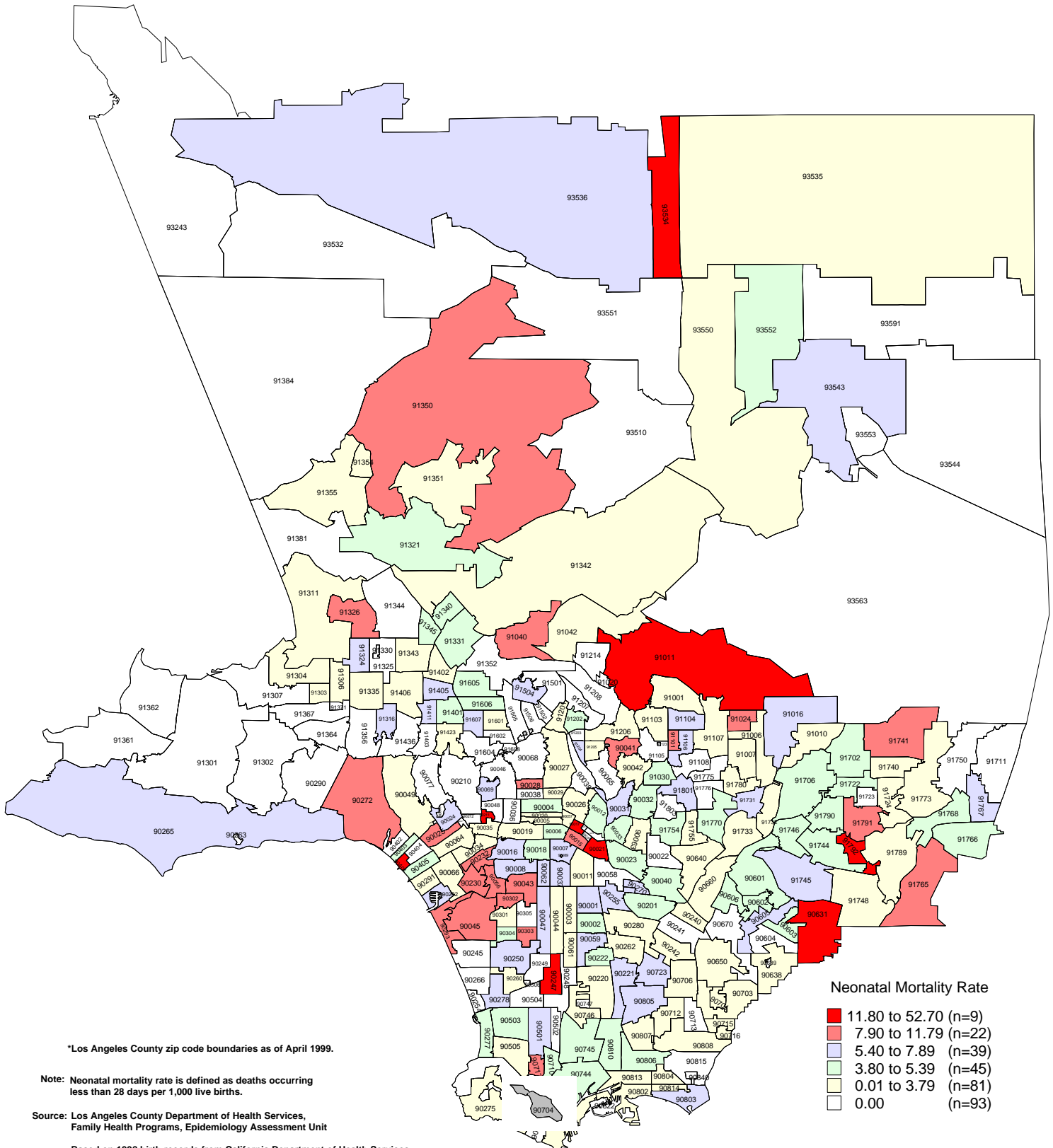
Note: Neonatal deaths are defined as deaths occurring less than 28 days per 1,000 live births.

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

# Neonatal Mortality Rate by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Note: Neonatal mortality rate is defined as deaths occurring less than 28 days per 1,000 live births.

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

n = total number of zip codes in range

Year 2000 Objective: Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Post-neonatal mortality

**DEFINITION:** The number of infant deaths per 1,000 live births occurring between 28 and 364 days of age

**NUMERATOR:** The number of infant deaths occurring at age 28 to 364 days of age, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce the post-neonatal mortality rate to no more than 2.5 per 1,000 live births. (Baseline: 3.6 in 1987) (Objective 14.1g)

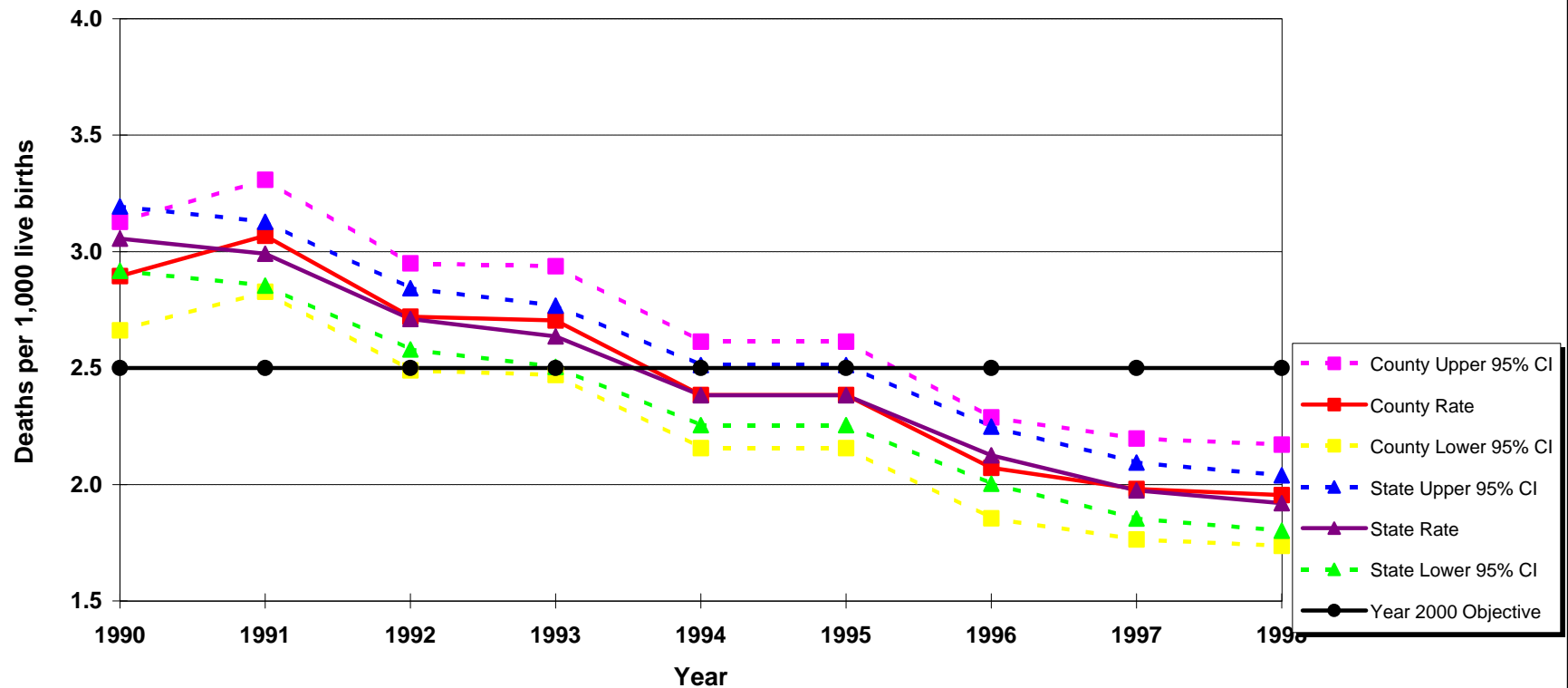
**RISK FACTORS:** Congenital anomalies; injuries; infection in late pregnancy; family history of SIDS; maternal smoking or drug use; young maternal age (teen births); race/ethnicity (African American, American Indian, Puerto Rican)

See also risk factors for infant mortality.

	California				LA County				DENOMINATOR: Live Births	
	Post-Neonatal Mortality		95% Confidence Interval		Post-Neonatal Mortality		95% Confidence Interval			
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper	California	LA County
1990	1,869	3.1	2.9	3.2	591	2.9	2.7	3.1	611,666	204,124
1991	1,822	3.0	2.9	3.1	622	3.1	2.8	3.3	609,228	202,737
1992	1,629	2.7	2.6	2.8	537	2.7	2.5	2.9	600,838	197,415
1993	1,541	2.6	2.5	2.8	513	2.7	2.5	2.9	584,483	189,706
1994	1,481	2.6	2.5	2.7	433	2.4	2.2	2.6	567,034	180,394
1995	1,314	2.4	2.3	2.5	417	2.4	2.2	2.6	551,226	174,862
1996	1,145	2.1	2.0	2.2	350	2.1	1.9	2.3	538,628	168,973
1997	1,035	2.0	1.9	2.1	321	2.0	1.8	2.2	524,174	162,036
1998	1,001	1.9	1.8	2.0	310	2.0	1.7	2.2	521,265	158,604

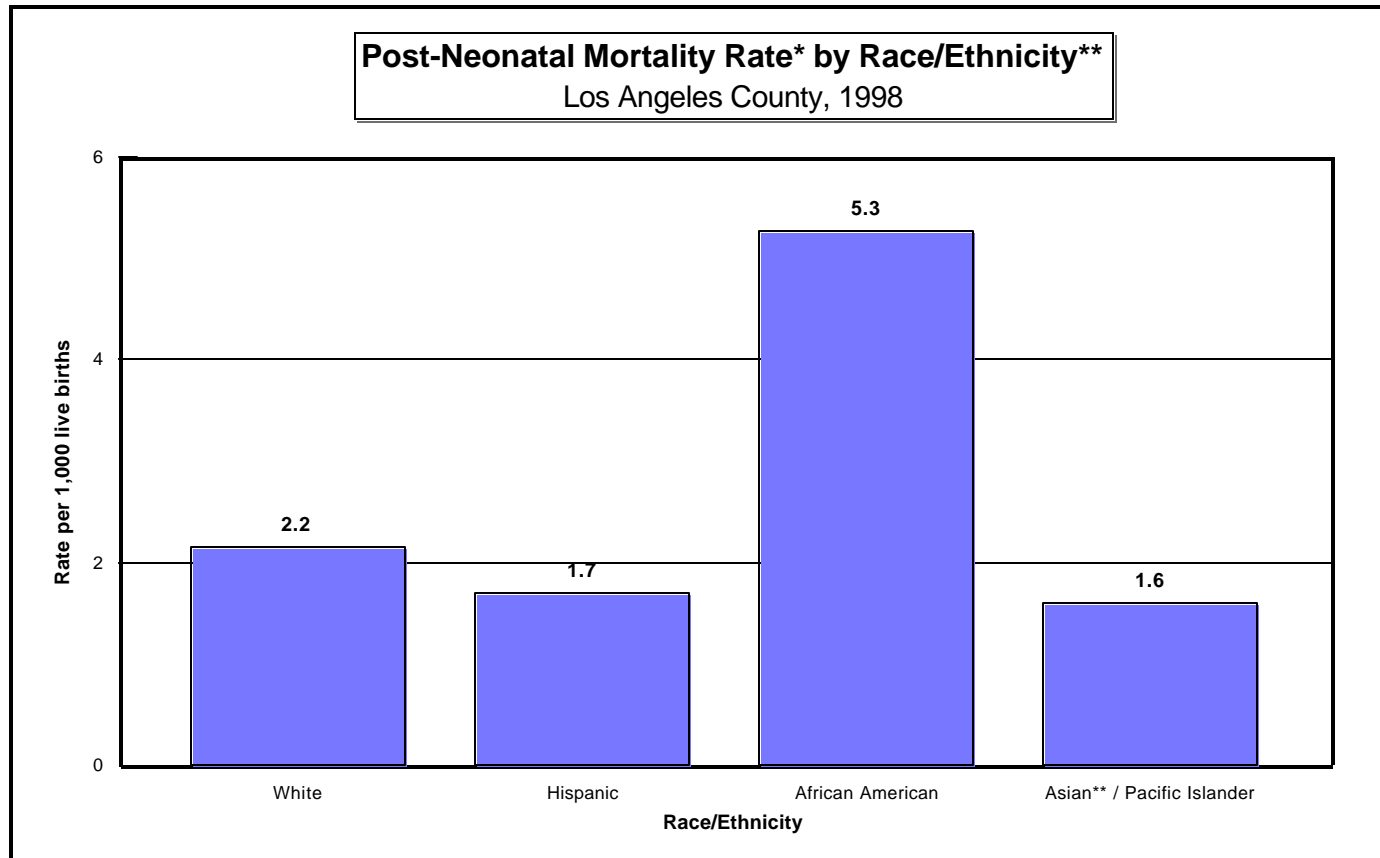
**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics

### Post-Neonatal Deaths per 1,000 Live Births California vs. Los Angeles County, 1990 - 1998



**Year 2000 Objective:** Reduce the neonatal mortality rate to no more than 2.5 per 1,000 live births.

**Source:** 1990-1998 birth and death records from California Department of Health Services, Center for Health Statistics



Post-Neonatal Mortality Rate	Los Angeles County, 1998			
			95 % Confidence Interval	
	Number	Rate	Lower	Upper
White	66	2.2	1.6	2.7
Hispanic	167	1.7	1.4	2.0
African American	75	5.3	4.1	6.5
Asian** / Pacific Islander	24	1.6	1.0	2.2
Native American	0	a	a	a
Other / Unknown	0	a	a	a
Total	332	2.1	1.9	2.3

Total Live Births / Race
30,621
98,074
14,246
14,968
262
433
158,604

\*\* White, African American, Asian, Native American and other race exclude Hispanic ethnicity  
Hispanic includes any race category  
Filipino is included in Asian  
a: Rates are not calculated if no more than five deaths

Year 2000 Objective: Reduce the post-neonatal mortality rate to no more than 2.5 per 1,000 live births.

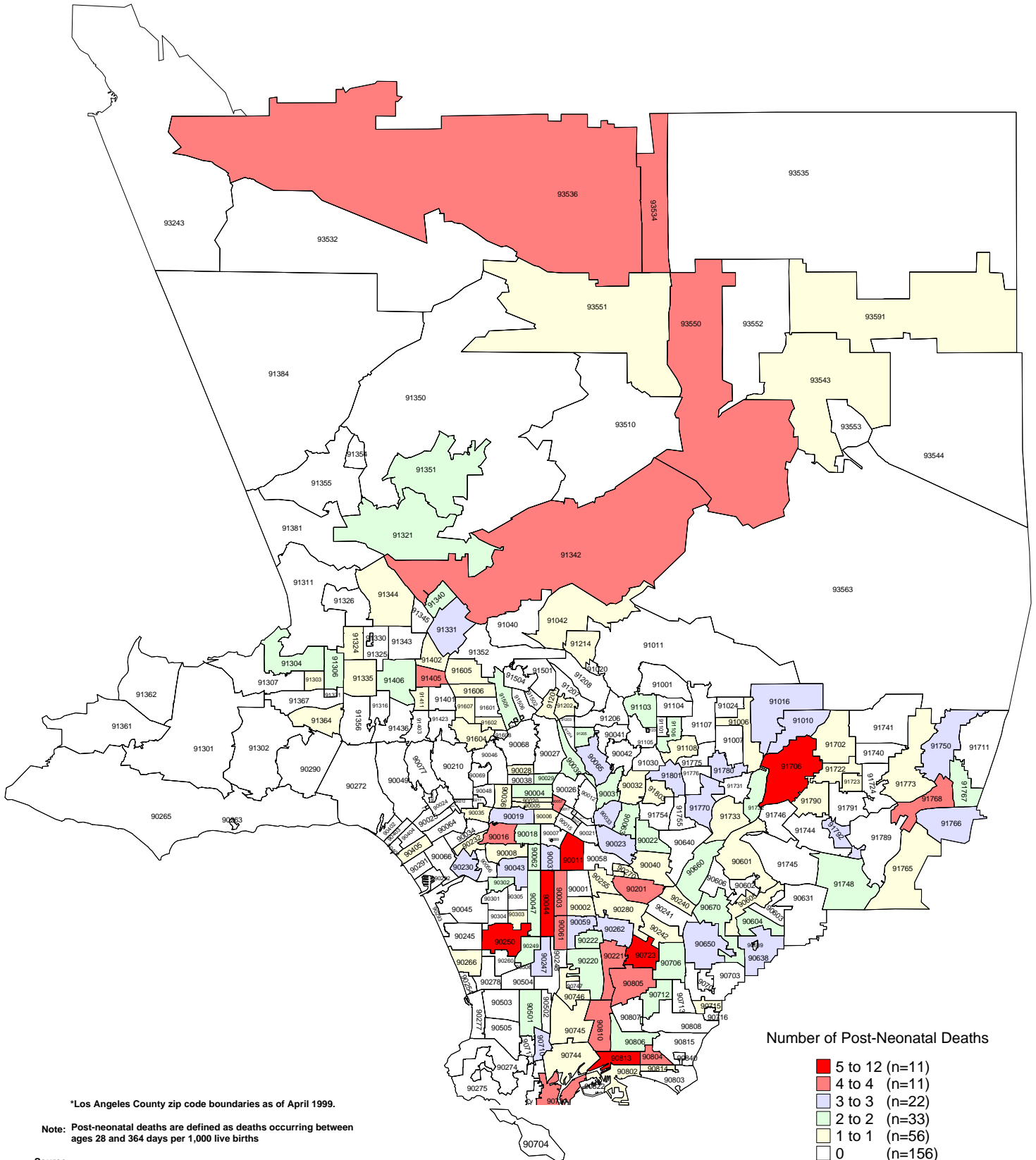
Note:\* Post-neonatal mortality rate is defined as deaths occurring between ages 28 and 364 days per 1,000 live births

Source: 1998 birth and death records from the California Department of Health Services, Center for Health Statistics



# Number of Post-Neonatal Deaths by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Note: Post-neonatal deaths are defined as deaths occurring between ages 28 and 364 days per 1,000 live births

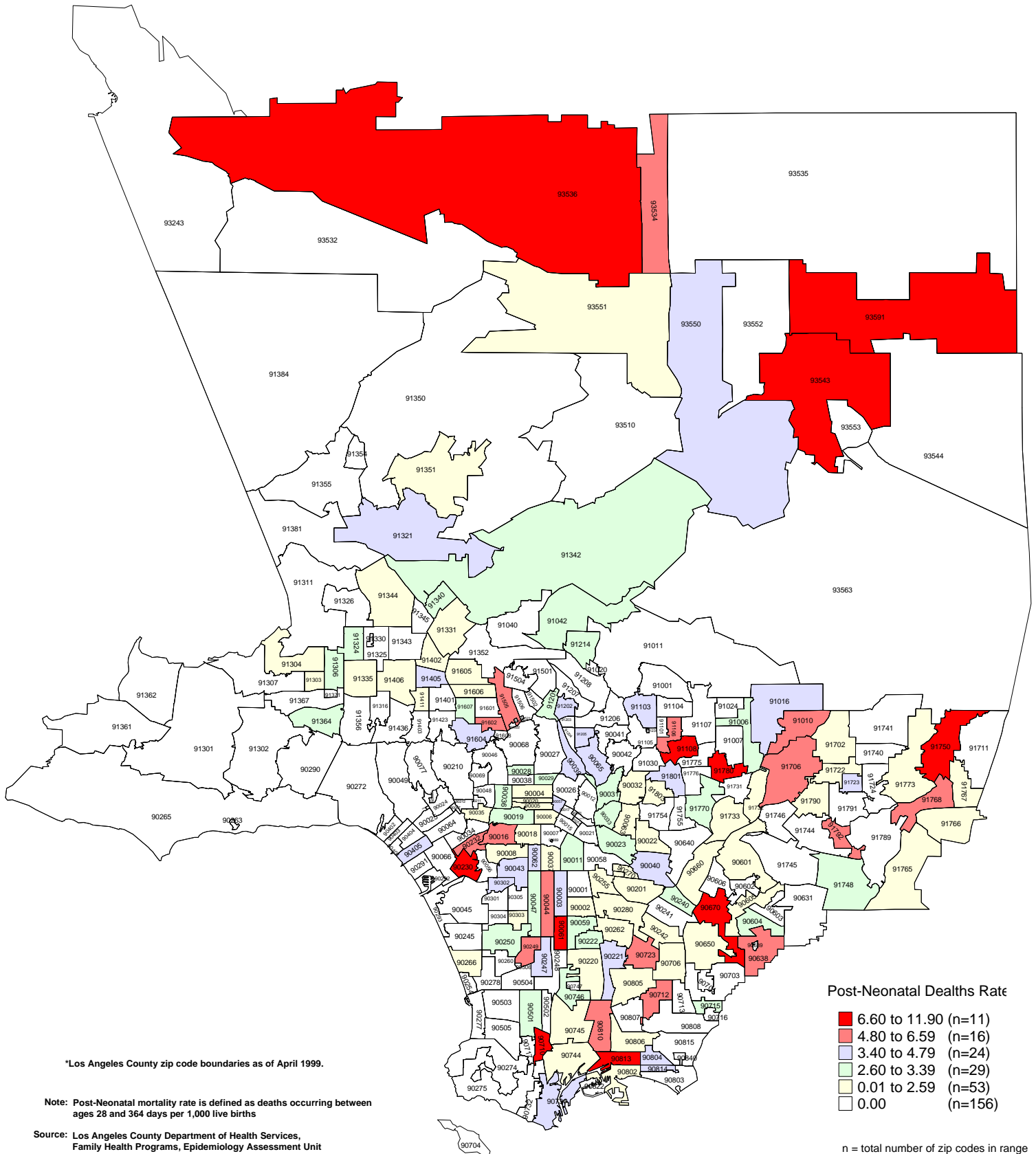
Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

n = total number of zip codes in range

# Post-Neonatal Rate by Zip Code\*

Los Angeles County, 1998



# Fetal Mortality

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Fetal death

**DEFINITION:** The number of fetal deaths of 20 weeks or more gestation per 1,000 live births plus fetal deaths

**NUMERATOR:** The number of fetal deaths of 20 weeks or more gestation, by place of residence, in a calendar year

**DENOMINATOR:** The total number of live births plus fetal deaths, by place of residence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce the fetal death rate (20 or more weeks of gestation) to no more than 5 per 1,000 live births plus fetal deaths. (Baseline: 7.6 per 1,000 live births plus fetal deaths in 1987) (Objective 14.2)

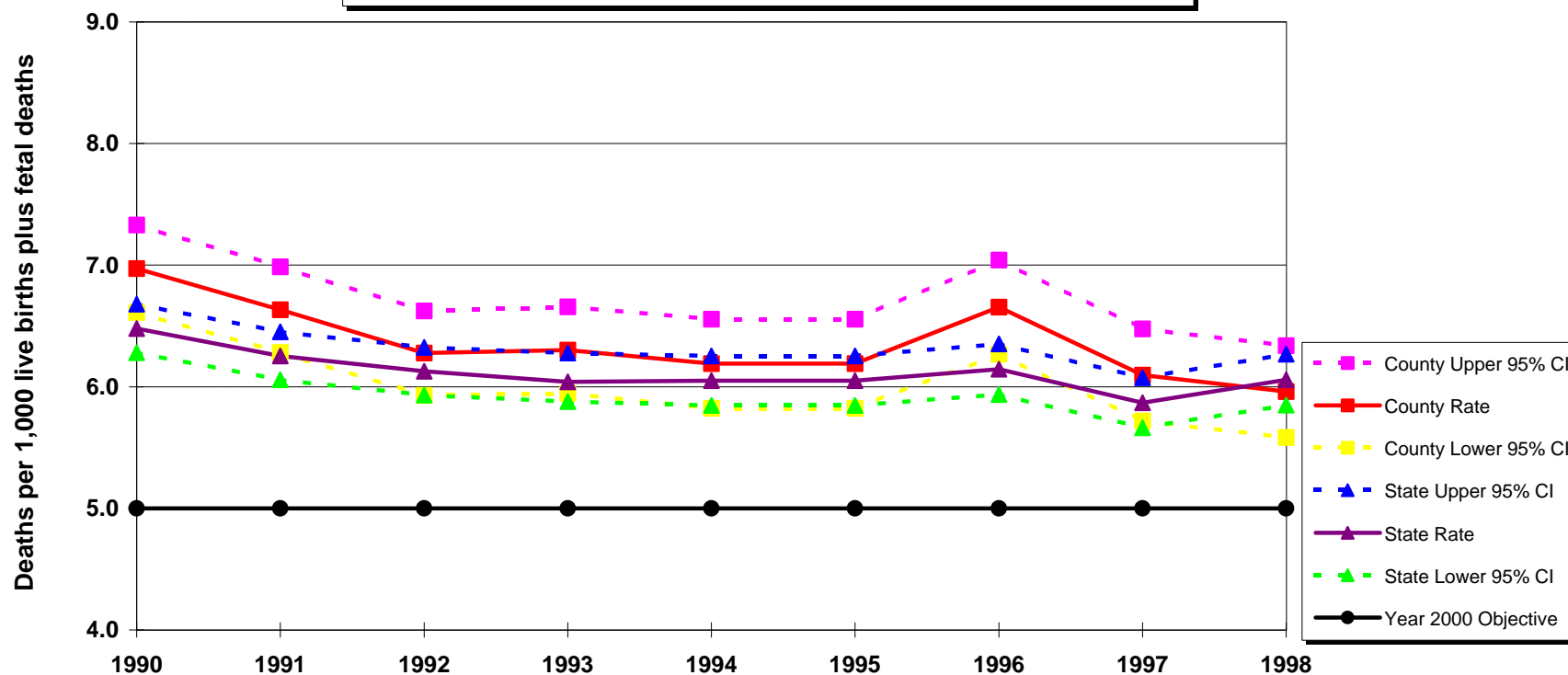
**RISK FACTORS:** Race/ethnicity (African American); maternal diabetes; pregnancy complications; maternal medical complications/chronic illness during pregnancy (including severe maternal infection); Rh sensitization; congenital anomalies; intrauterine cocaine exposure; maternal history of miscarriage

	California				LA County				DENOMINATOR: Total Births*	
	Fetal Death		95% Confidence Interval		Fetal Death		95% Confidence Interval			
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper	California	LA County
1990	3,989	6.5	6.3	6.7	1,433	7.0	6.6	7.3	615,655	205,557
1991	3,834	6.3	6.1	6.5	1,354	6.6	6.3	7.0	613,062	204,091
1992	3,704	6.1	5.9	6.3	1,247	6.3	5.9	6.6	604,542	198,662
1993	3,574	6.0	5.9	6.3	1,203	6.3	5.9	6.7	588,057	190,909
1994	3,299	5.8	5.6	6.0	1,153	6.4	6.0	6.7	570,333	181,547
1994	3,355	6.0	5.8	6.3	1,089	6.2	5.8	6.6	554,581	175,951
1996	3,330	6.1	5.9	6.4	1,132	6.7	6.3	7.0	541,958	170,105
1997	3,094	5.9	5.7	6.1	994	6.1	5.7	6.5	527,268	163,030
1998	3,177	6.1	5.8	6.3	951	6.0	5.6	6.3	524,442	159,555

**Source:** 1990-1998 birth and fetal death records from California Department of Health Services, Center for Health Statistics

**Note:** \*Total births = number of live births + number of fetal deaths

### Fetal Deaths per 1,000 Live Births plus Fetal Deaths California vs. Los Angeles County, 1990 - 1998

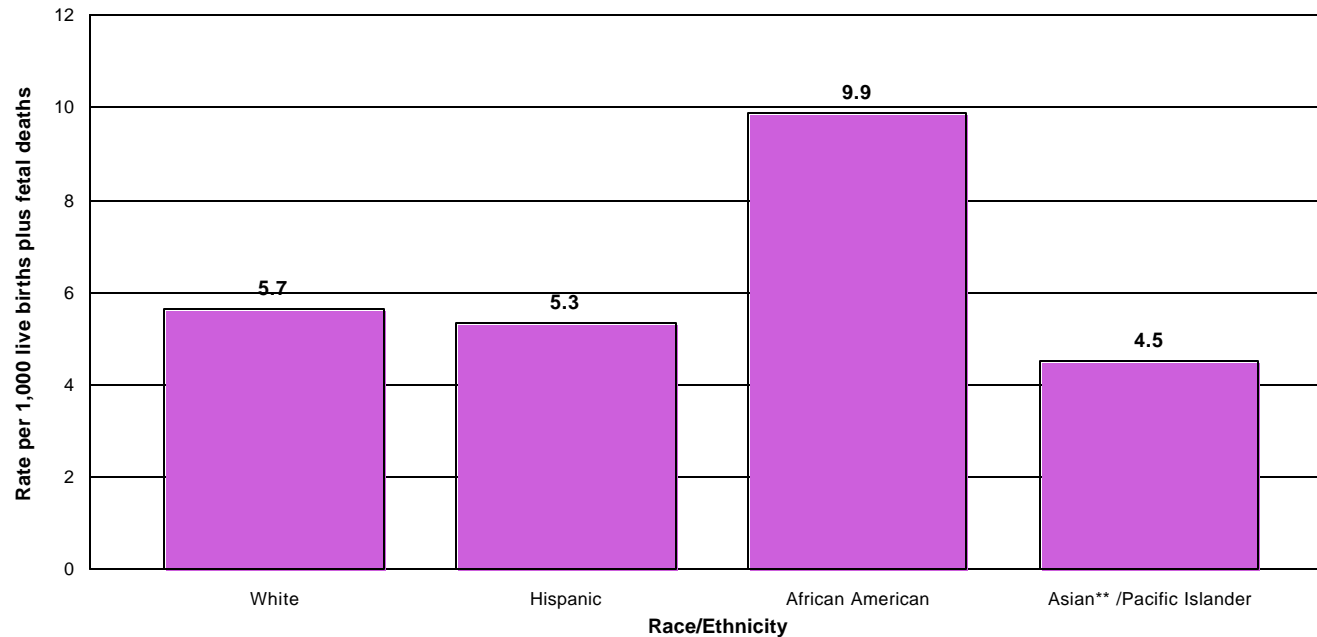


**Year 2000 Objective:** Reduce the fetal death rate (20 or more weeks of gestation) to no more than 5 per 1,000 live births plus fetal deaths.

**Source:** 1990-1998 birth and fetal death records from California Department of Health Services, Center for Health Statistics

### Fetal Mortality Rate\* by Mother's Race/Ethnicity\*\*

Los Angeles County, 1998



Los Angeles County, 1998				
Fetal Mortality Rate			95% Confidence Interval	
	Number	Rate	Lower	Upper
White	174	5.7	4.8	6.5
Hispanic	526	5.3	4.9	5.8
African American	142	9.9	8.3	11.5
Asian** /Pacific Islander	68	4.5	3.4	5.6
Native American	1	a	a	a
Other / Unknown	40	84.6	59.5	109.6
Total	951	6.0	5.6	6.3

Total Births / Race
30,795
98,600
14,388
15,036
263
473
159,555

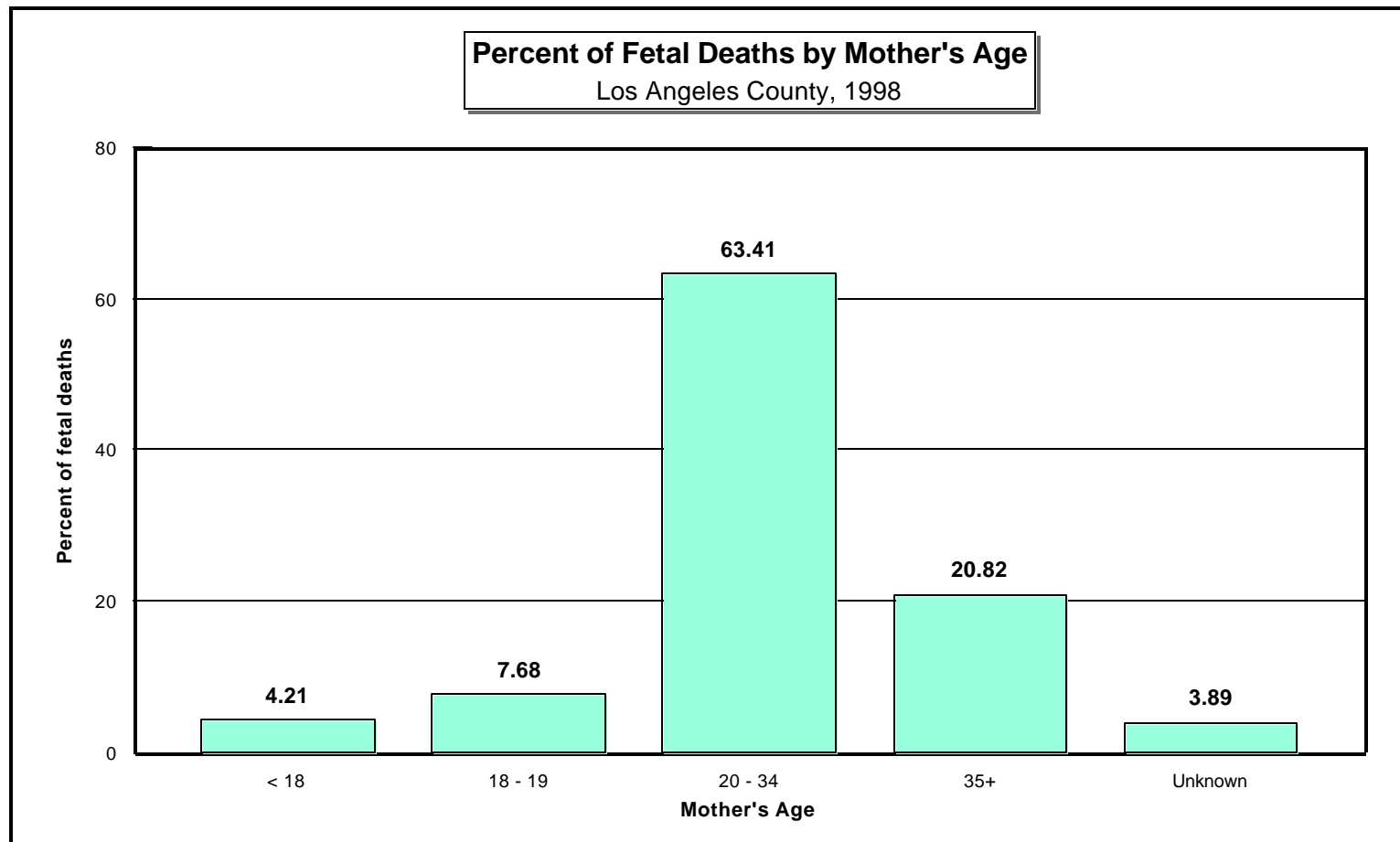
\*\* White, African American, Asian, Native American and other races exclude Hispanic ethnicity  
 Hispanic includes any race category  
 Filipino is included in Asian  
 a: Rates are not calculated if no more than five deaths

Year 2000 Objective: Reduce the fetal death rate (20 or more weeks of gestation) to no more than 5 per 1,000 live births plus fetal deaths.

Note:\* Fetal mortality rates are fetal deaths per 1,000 live births plus fetal deaths.

Fetal deaths are those occurring during 20 weeks or more gestational period.

Source: 1998 birth and fetal death records from the California Department of Health Services, Center for Health Statistics



Mother's Age									
< 18		18 - 19		20 - 34		35+		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
40	4.21	73	7.68	603	63.41	198	20.82	37	3.89

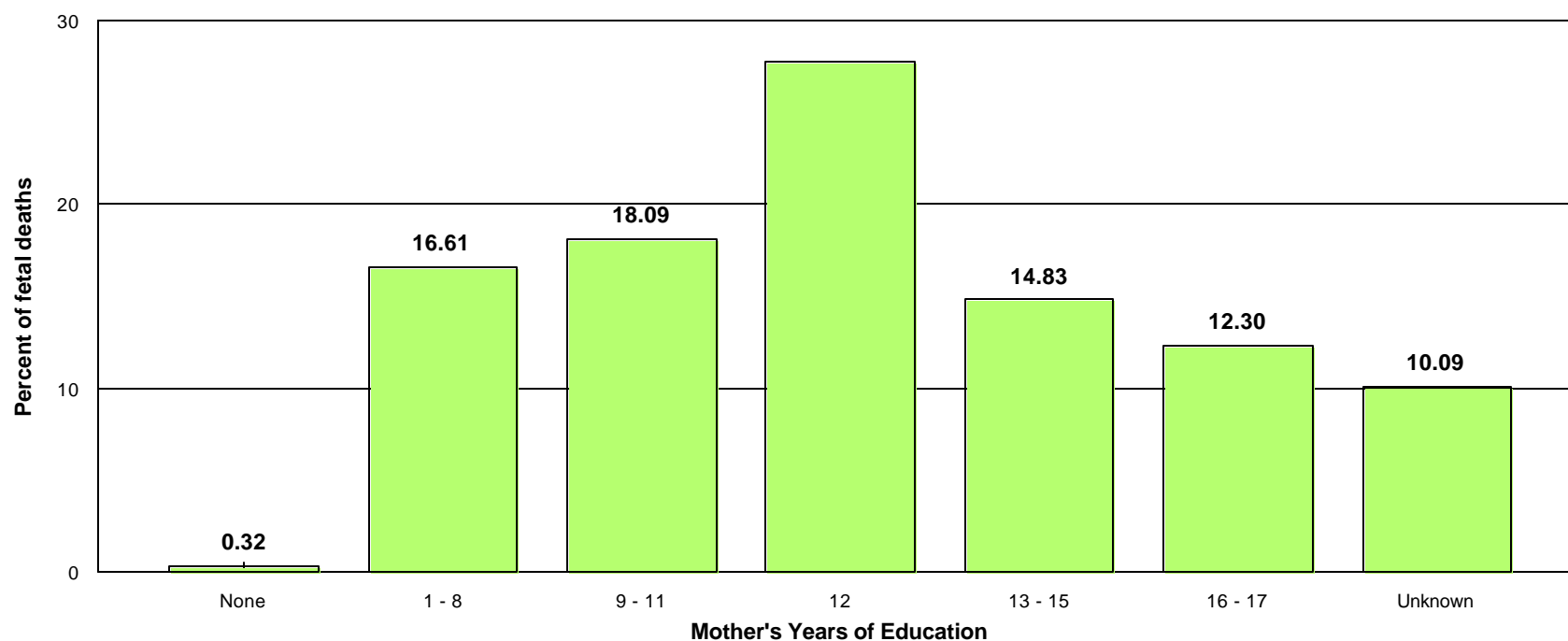
Note: Total fetal deaths in 1998 = 951

Fetal deaths are those occurring during 20 weeks or more gestational period.

Source: 1998 fetal death records from the California Department of Health Services, Center for Health Statistics

### Percent of Fetal Deaths by Mother's Years of Education

Los Angeles County, 1998



Years of Education													
None		1 - 8		9 - 11		12		13 - 15		16 - 17		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
3	0.32	158	16.61	172	18.09	264	27.76	141	14.83	117	12.30	96	10.09

Note: Total fetal deaths in 1998 = 951

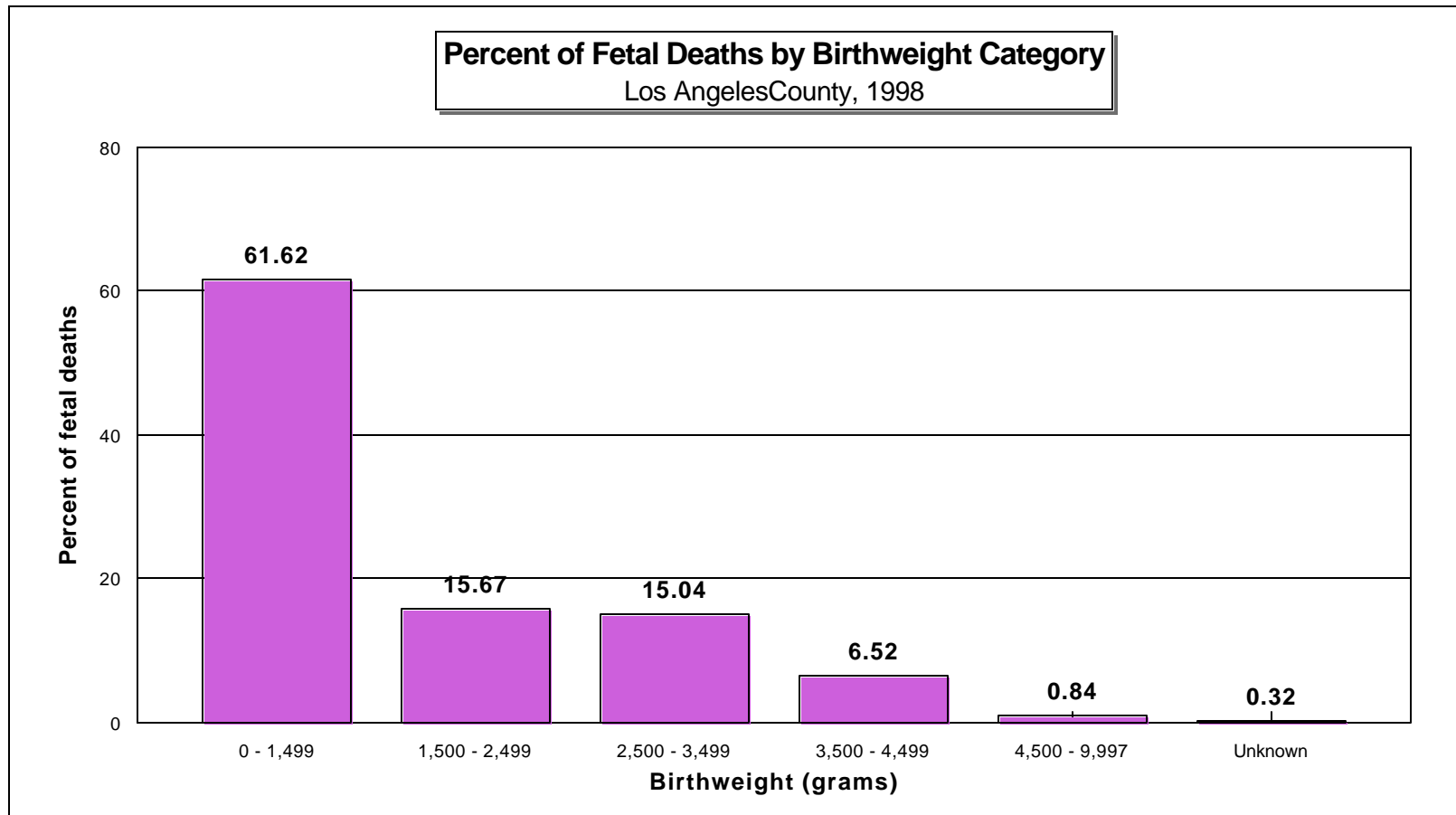
Fetal deaths are those occurring during 20 weeks or more gestational period.

Year '17' = mothers who attained college degree or above

This analysis did not adjust for teen mothers who may not be old enough to have reached higher categorical education level.

Source: 1998 fetal death records from the California Department of Health Services, Center for Health Statistics





Birthweight (grams)											
0 - 1,499		1,500 - 2,499		2,500 - 3,499		3,500 - 4,499		4,500 - 9,997		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
586	61.62	149	15.67	143	15.04	62	6.52	8	0.84	3	0.32

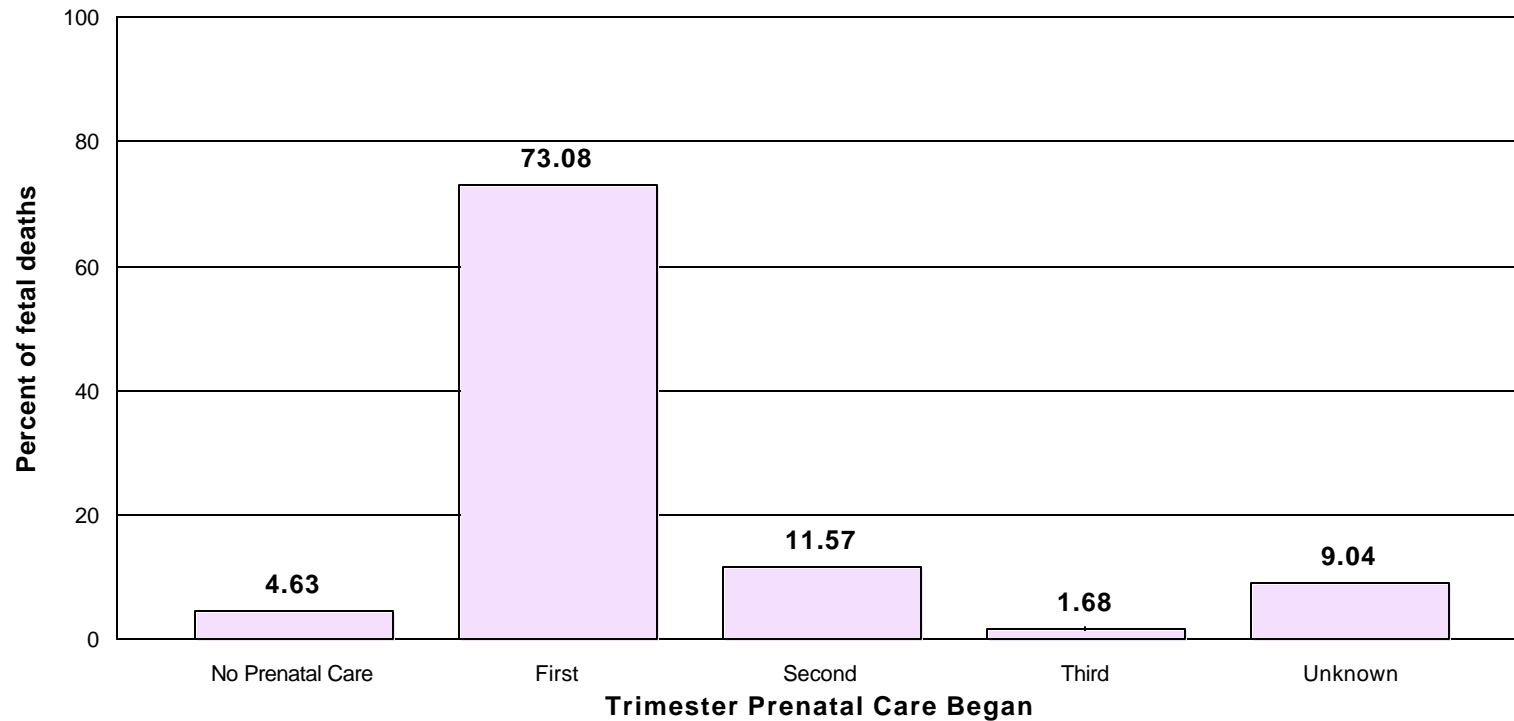
Note: Total fetal deaths in 1998 = 951

Fetal deaths are those occurring during 20 weeks or more gestational period.

Source: 1998 fetal death records from the California Department of Health Services, Center for Health Statistics

## Percent of Fetal Deaths by Mother's Trimester Prenatal Care Began

Los Angeles County, 1998

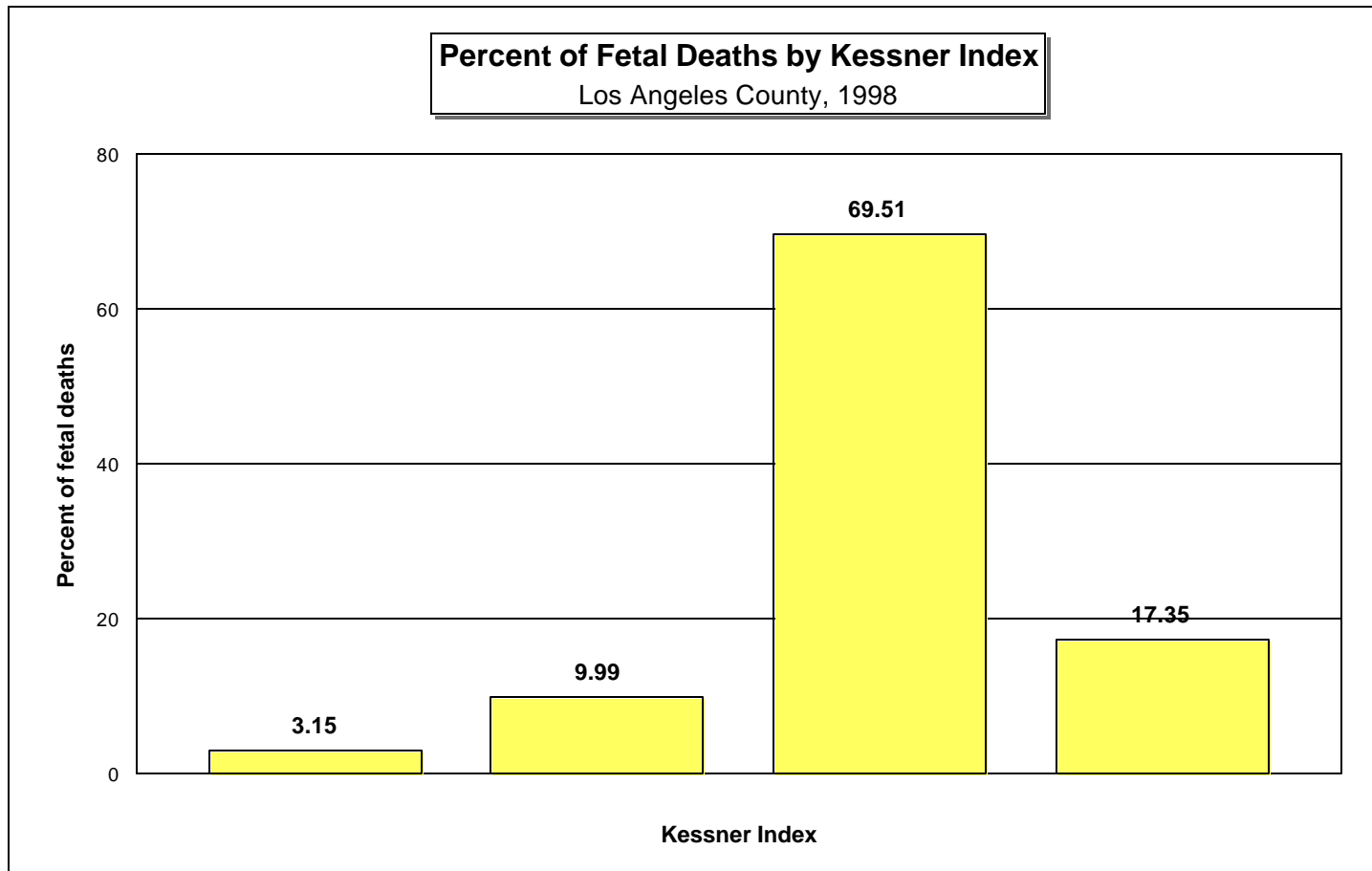


Trimester Prenatal Care Began									
No Prenatal Care		First		Second		Third		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
44	4.63	695	73.08	110	11.57	16	1.68	86	9.04

Note: Total fetal deaths in 1998 = 951

Fetal deaths are those occurring during 20 weeks or more gestational period.

Source: 1998 fetal death records from the California Department of Health Services, Center for Health Statistics



Kessner Index							
Inadequate		Intermediate		Adequate		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent
30	3.15	95	9.99	661	69.51	165	17.35

Note: Total fetal deaths in 1998 = 951

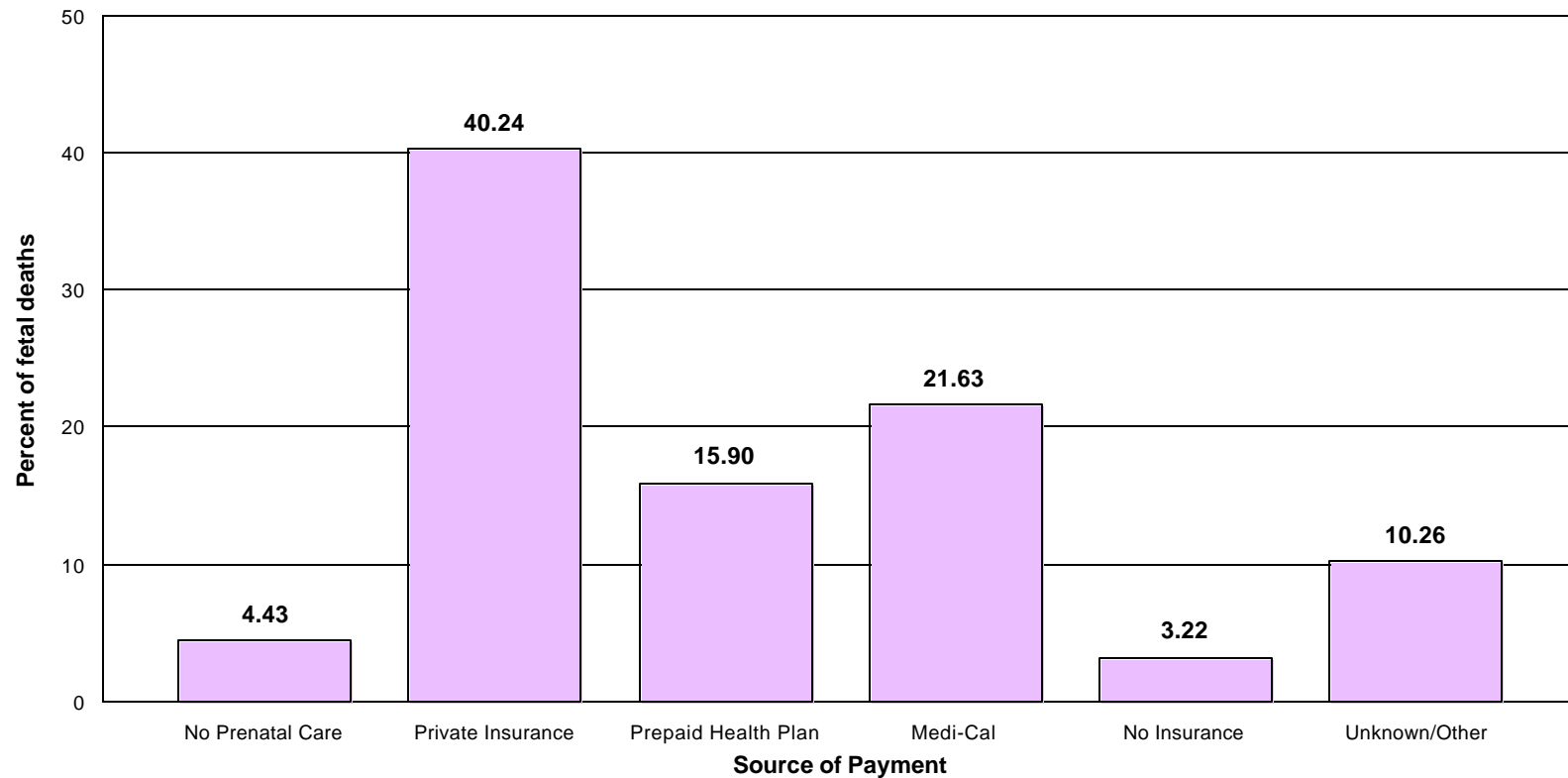
Fetal deaths are those occurring during 20 weeks or more gestational period.

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation.

Source: 1998 fetal death records from the California Department of Health Services, Center for Health Statistics

### Percent of Fetal Deaths by Source of Payment for Prenatal Care

Los Angeles County, 1998



No Prenatal Care		Private Insurance		Prepaid Health Plan		Medi-Cal		No Insurance		Unknown/Other	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
44	4.43	400	40.24	158	15.90	215	21.63	32	3.22	102	10.26

Note: Total fetal deaths in 1998 = 951

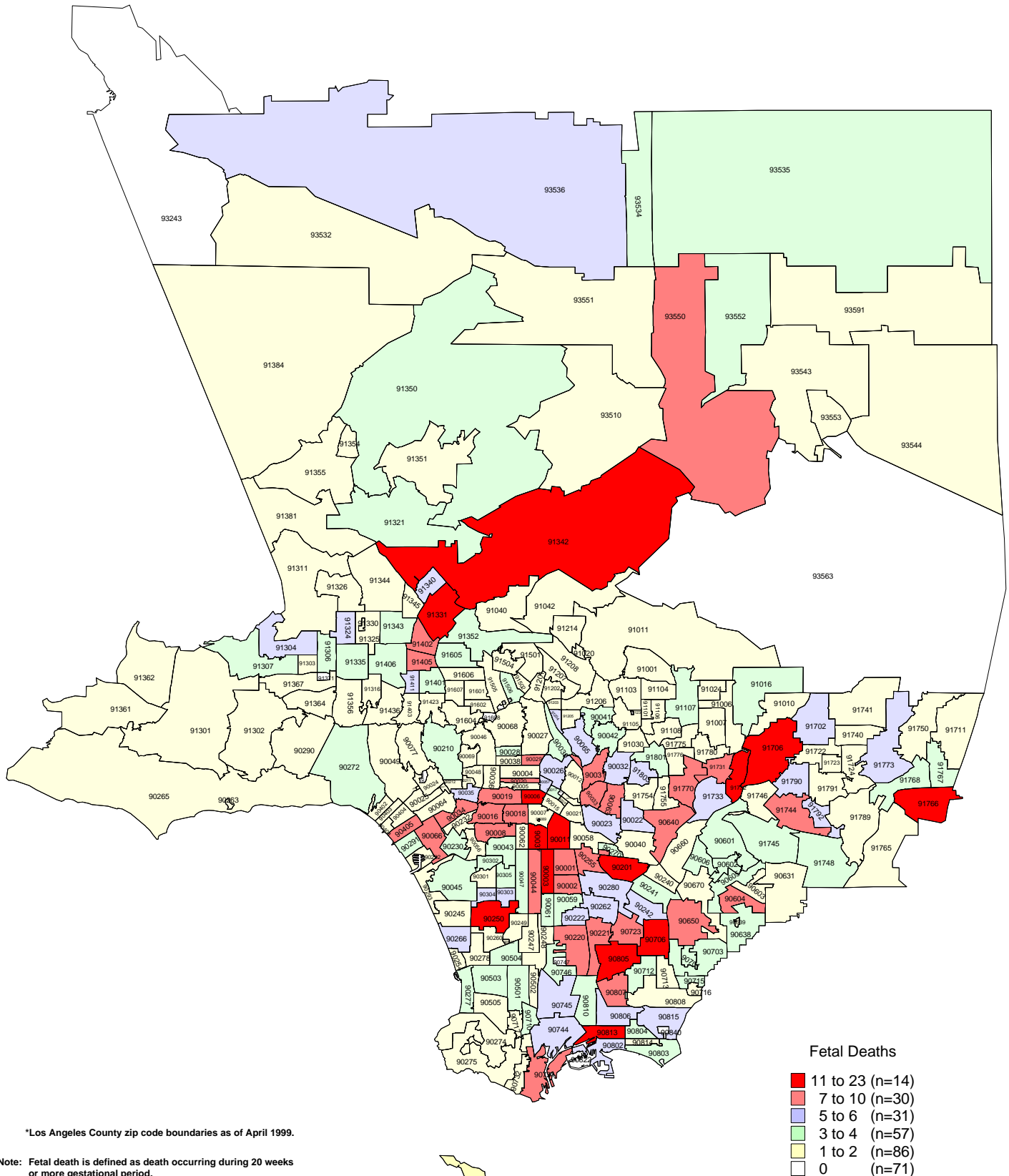
Fetal deaths are those occurring during 20 weeks or more gestational period.

Source: 1998 fetal death records from the California Department of Health Services, Center for Health Statistics

Los Angeles County - Department of Health Services

# Number of Fetal Deaths by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Note: Fetal death is defined as death occurring during 20 weeks or more gestational period.

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

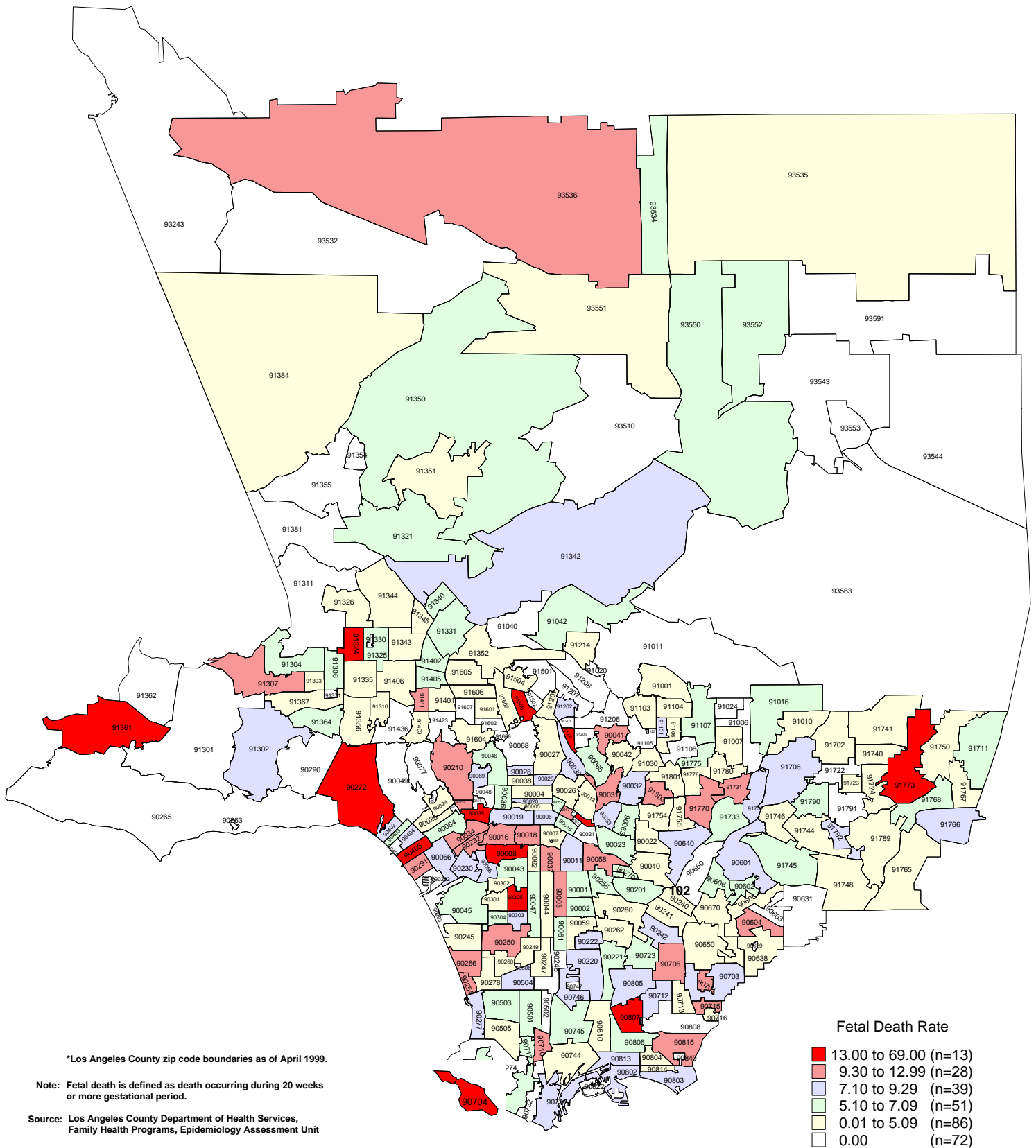
Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

n = total number of zip codes in range

Los Angeles County - Department of Health Services

# Fetal Deaths Rate by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Note: Fetal death is defined as death occurring during 20 weeks or more gestational period.

Source: Los Angeles County Department of Health Services, Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services, Center for Health Statistics

n = total number of zip codes in range

# Teen Births

## TITLE V INDICATOR TEMPLATES

### INDICATOR: Teen births

**DEFINITION:** The number of live births per 1,000 adolescent females by age at delivery (less than 15 years of age, 15 to 17 years of age, and 18 to 19 years of age)

**NUMERATOR:** The total number of live births among adolescent females, by age group (less than 15, 15 to 17, 18 to 19), by place of residence, in a calendar year

**DENOMINATOR:** The total number of adolescent females by age group (less than 15, 15 to 17, 18 to 19), by place of residence, in a calendar year

### HEALTHY PEOPLE 2000 OBJECTIVE:

Reduce pregnancies among girls aged 17 and younger to no more than 50 per 1,000 adolescents. (Baseline: 71.1 pregnancies per 1,000 girls aged 15 through 17 in 1985) (Objective 5.1)\*

**RISK FACTORS:** Low income; low maternal education level; race/ethnicity (African American, Hispanic); lack of effective contraceptive use/family planning practices; lack of education/counseling regarding contraceptive use/family planning; previous teen pregnancy; initiation of sexual activity at a young age

## THE FOLLOWING THREE TABLES STRATIFY TEEN BIRTHS BY AGE GROUP

### Births to adolescent females younger than 15 years of age

	California				County				Females < 15 (i.e. 10 - 14)
			95% Confidence Interval				95% Confidence Interval		DENOMINATOR:
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper	State County
1990	1,390	1.4	1.4	1.5	516	1.8	1.7	2.0	965,280 285,643
1991	1,469	1.5	1.4	1.5	513	1.8	1.6	1.9	1,006,755 292,429
1992	1,595	1.5	1.5	1.6	554	1.9	1.7	2.0	1,035,273 296,781
1993	1,572	1.5	1.4	1.6	550	1.8	1.7	2.0	1,063,935 301,160
1994	1,687	1.6	1.5	1.6	544	1.8	1.6	1.9	1,085,865 306,055
1995	1,640	1.5	1.4	1.6	550	1.8	1.6	1.9	1,099,978 308,833
1996	1,485	1.3	1.3	1.4	477	1.5	1.4	1.7	1,114,798 313,049
1997	1,256	1.1	1.0	1.2	408	1.3	1.1	1.4	1,145,701 322,971
1998	1,066	0.9	0.9	1.0	337	1.0	0.9	1.1	1,172,868 332,159

**Note:** \*This indicator addresses live births as opposed to pregnancies.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998



**TITLE V INDICATOR TEMPLATES**

**INDICATOR: Teen births (continued)**

**Births to adolescent females 15 to 17 years of age**

	California				County			
			95% Confidence Interval				95% Confidence Interval	
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1990	24,828	44.2	43.7	44.7	8,814	50.6	49.5	51.6
1991	25,914	46.5	45.9	47.0	9,078	53.4	52.3	54.4
1992	25,967	45.6	45.1	46.2	8,808	51.6	50.6	52.7
1993	26,301	45.8	45.3	46.4	8,629	51.4	50.3	52.4
1994	26,378	45.2	44.7	45.8	8,576	51.3	50.2	52.3
1995	25,821	42.9	42.4	43.4	8,369	49.4	48.4	50.4
1996	24,047	38.3	37.8	38.8	7,741	44.4	43.4	45.4
1997	23,064	35.7	35.2	36.1	7,237	40.5	39.6	41.5
1998	21,630	32.6	32.2	33.0	6,770	37.2	36.3	38.1

Year	DENOMINATOR: Females 15-17		NUMERATOR: Births to 15-17 year olds					
	State	County	State Births, 15 year olds	State Births, 16 year olds	State Births, 17 year olds	Births, 15 year olds	County Births, 16 year olds	County Births, 17 year olds
1990	561,743	174,335	3,807	7,898	13,123	1,341	2,808	4,665
1991	557,492	170,138	3,952	8,545	13,417	1,380	3,030	4,668
1992	569,137	170,568	4,070	8,547	13,350	1,339	2,918	4,551
1993	573,941	167,905	4,279	8,641	13,381	1,383	2,827	4,419
1994	583,290	167,270	4,335	8,701	13,342	1,419	2,771	4,386
1995	602,236	169,393	4,182	8,560	13,079	1,386	2,775	4,208
1996	627,740	174,348	3,886	8,093	12,068	1,251	2,655	3,835
1997	646,663	178,522	3,645	7,557	11,862	1,143	2,421	3,673
1998	663,642	181,901	3,215	7,094	11,321	1,002	2,227	3,541

**Note:** \*This indicator addresses live births as opposed to pregnancies.

**Sources:** 1990-1998 birth records from California Department of Health Services,  
Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population  
Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

**TITLE V INDICATOR TEMPLATES**

**INDICATOR: Teen births (continued)**

**Births to adolescent females 18 to 19 years of age**

	California				County			
			95% Confidence Interval				95% Confidence Interval	
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1990	44,732	103.6	102.7	104.5	15,131	111.6	109.9	113.3
1991	44,408	109.0	108.1	110.0	15,243	122.6	120.8	124.4
1992	43,305	109.0	108.1	110.0	14,608	122.6	120.7	124.4
1993	42,218	109.1	108.1	110.1	13,999	123.4	121.5	125.3
1994	41,820	107.8	106.9	108.8	13,515	120.4	118.5	122.3
1995	40,823	105.0	104.0	105.9	13,243	120.1	118.2	122.0
1996	39,071	98.6	97.7	99.5	12,217	111.6	109.8	113.5
1997	36,787	90.1	89.3	91.0	11,293	102.2	100.4	104.0
1998	36,511	85.1	84.2	85.9	11,153	97.3	95.6	99.0

Year	DENOMINATOR: Females 18-19		NUMERATOR: Births to 18 - 19 year olds			
	State	County	State Births, 18 year olds	State Births, 19 year olds	County Births, 18 year olds	County Births, 19 year olds
1990	431,798	135,572	18,981	25,751	6,538	8,593
1991	407,276	124,307	19,423	24,985	6,765	8,478
1992	397,128	119,170	18,779	24,526	6,440	8,168
1993	387,000	113,474	18,638	23,580	6,173	7,826
1994	387,800	112,212	18,548	23,272	6,046	7,469
1995	388,944	110,278	18,017	22,806	5,810	7,433
1996	396,205	109,454	17,048	22,023	5,274	6,943
1997	408,132	110,462	16,132	20,655	4,952	6,341
1998	429,256	114,609	16,018	20,493	4,944	6,209

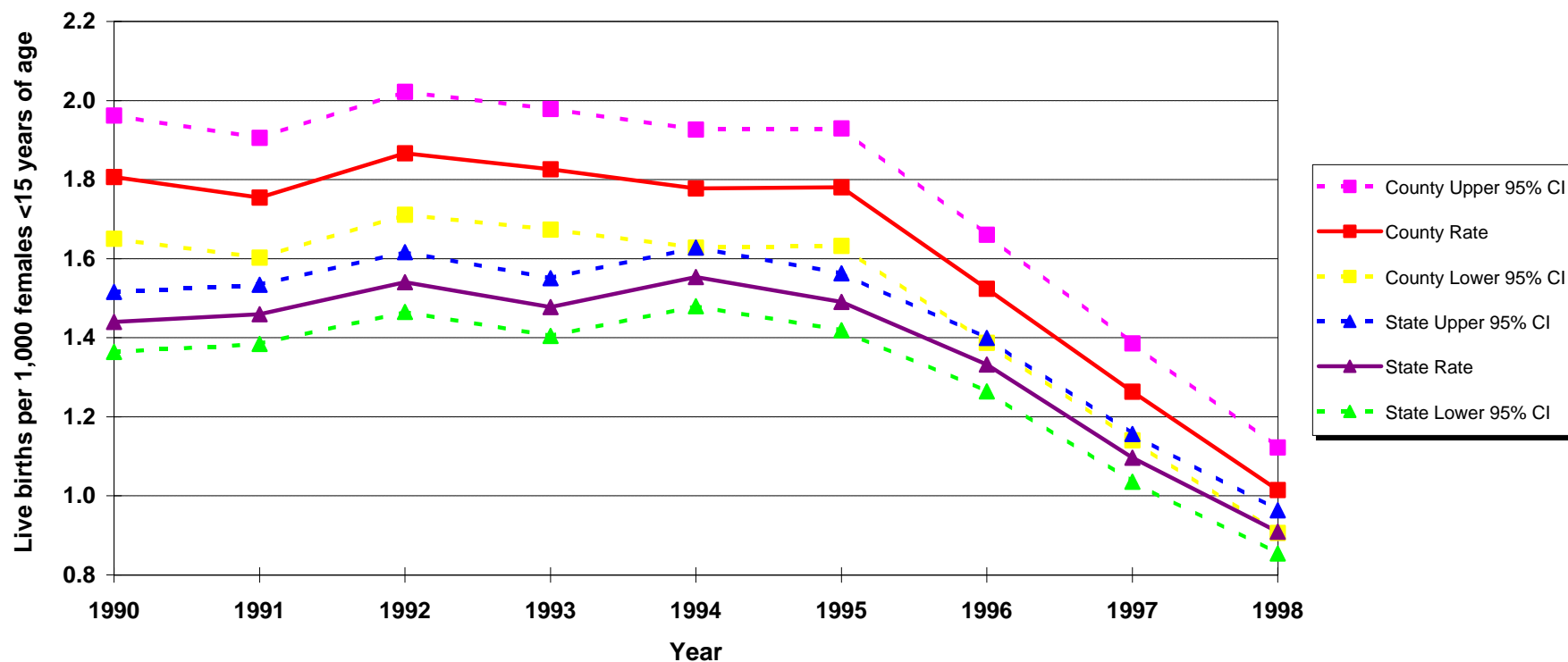
**Note:** \*This indicator addresses live births as opposed to pregnancies.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population

Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

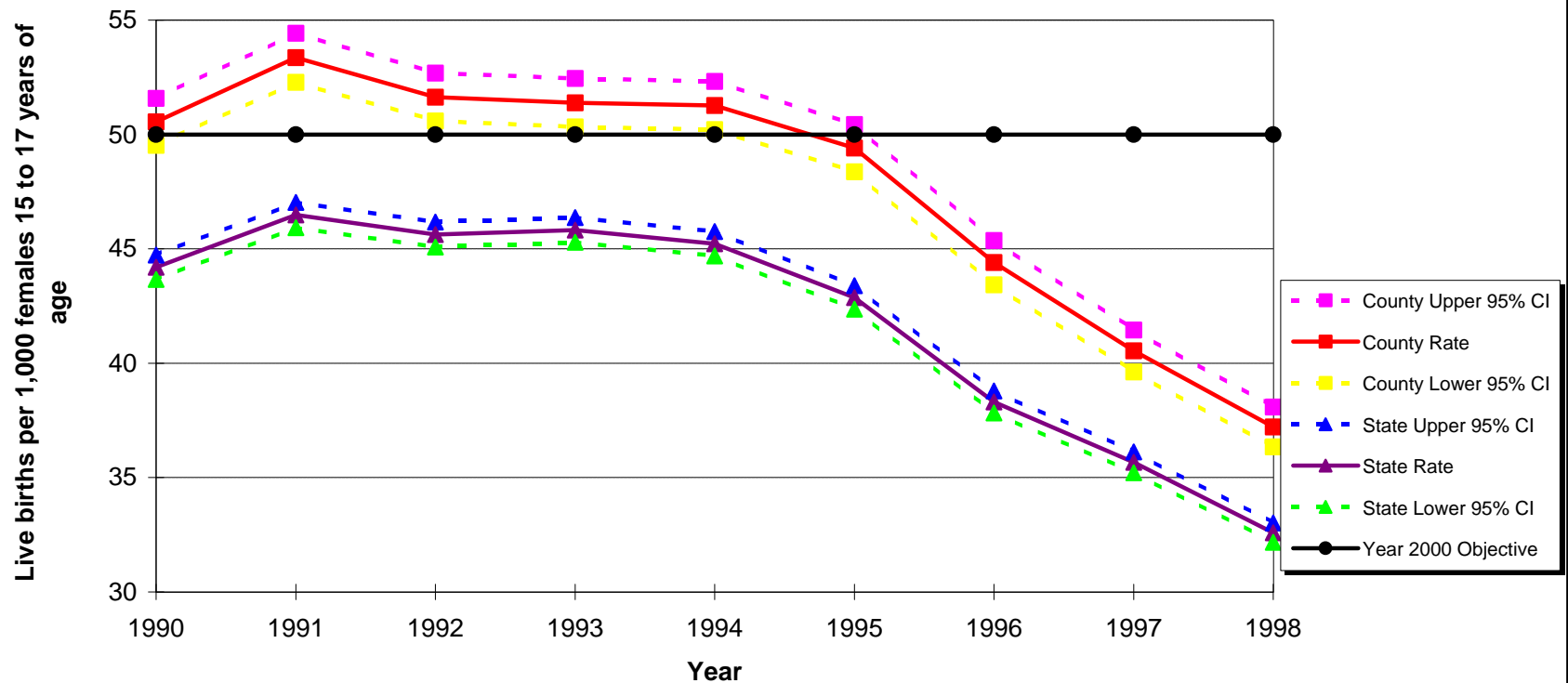
## Live Births per 1,000 Adolescent Females Less Than 15 Years of Age California vs. Los Angeles County, 1990 - 1998



**Note:** \*This indicator addresses live births as opposed to pregnancies.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## Live Births per 1,000 Adolescent Females 15 to 17 Years of Age California vs. Los Angeles County, 1990 - 1998

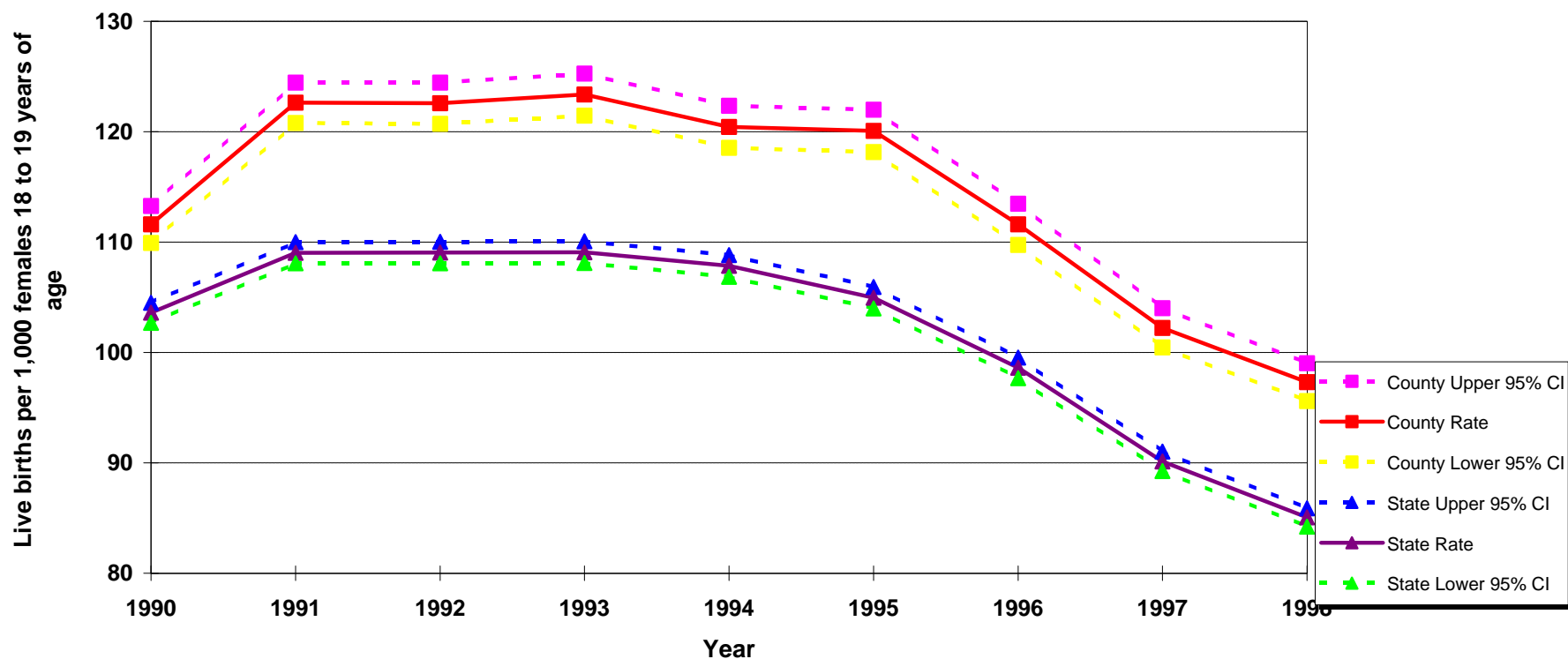


**Year 2000 Objective:** Reduce pregnancies among girls aged 17 and younger to no more than 50 per 1,000 adolescents.

**Note:** \*This indicator addresses live births as opposed to pregnancies.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## Live Births per 1,000 Adolescent Females 18 to 19 Years of Age California vs. Los Angeles County, 1990 - 1998

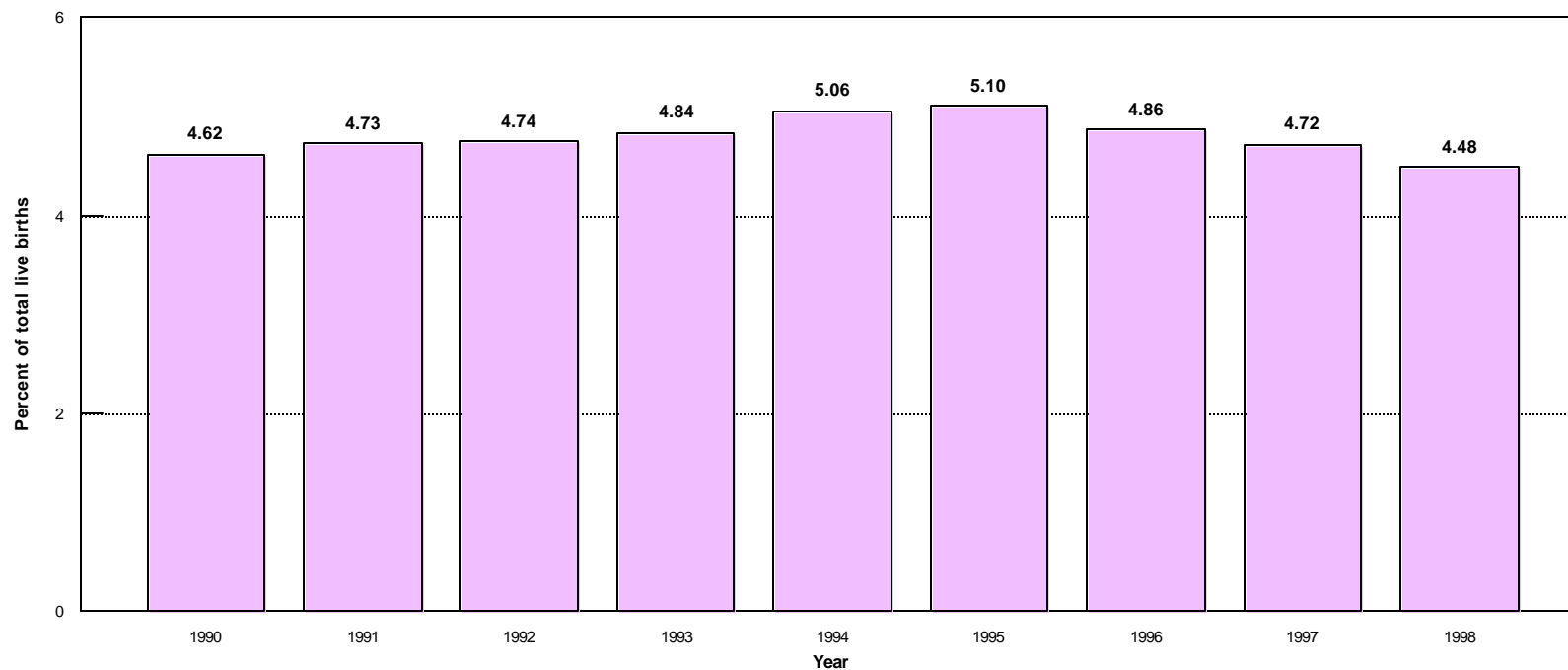


**Note:** \*This indicator addresses live births as opposed to pregnancies.

**Sources:** 1990-1998 birth records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## Live Births to Mothers Less Than 18 Years Old as Percent of Total Live Births

Los Angeles County, 1990 - 1998

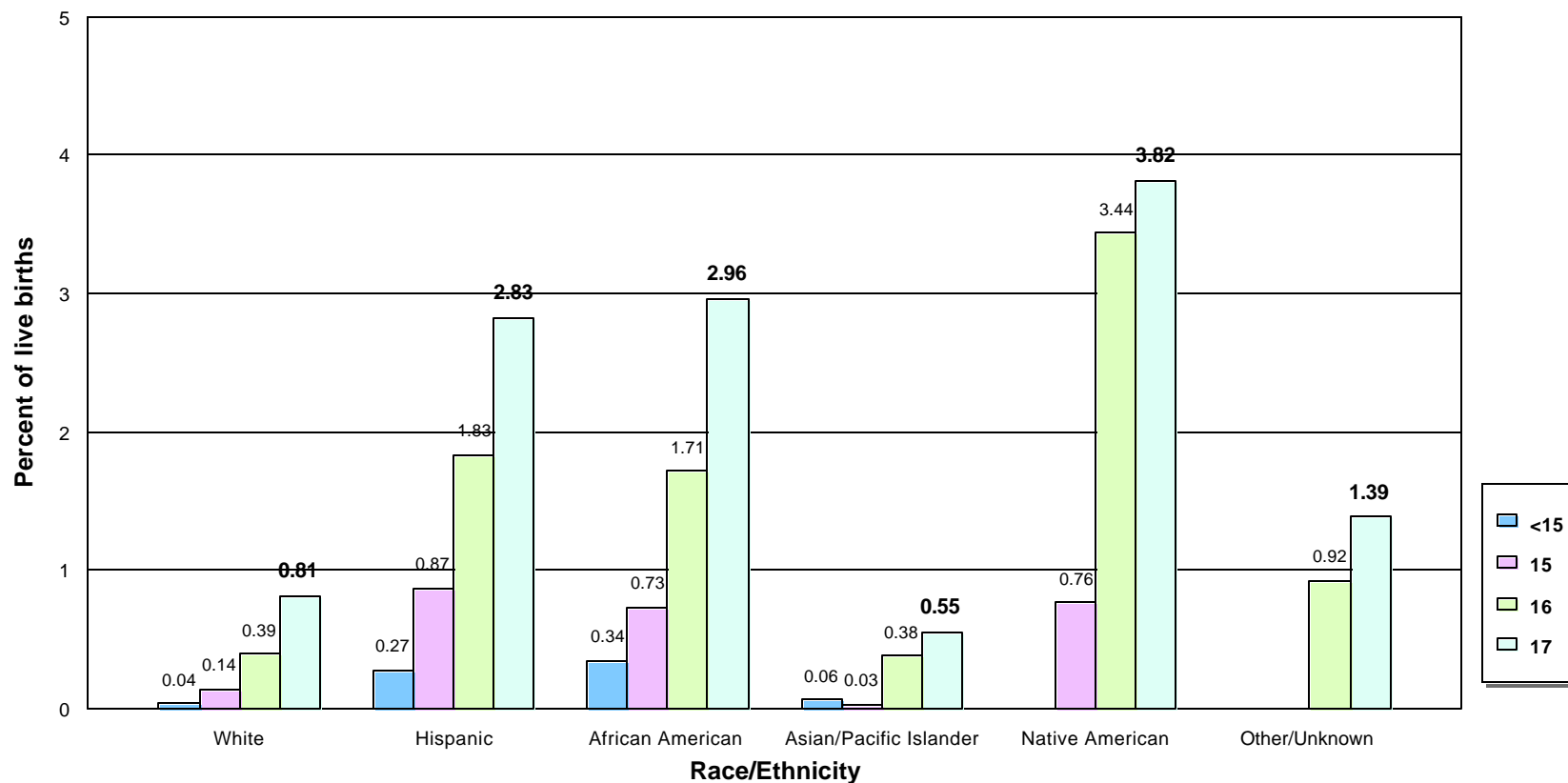


	Year																	
	1990		1991		1992		1993		1994		1995		1996		1997		1998	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
< 18	9,330	4.62	9,591	4.73	9,362	4.74	9,179	4.84	9,120	5.06	8,919	5.10	8,218	4.86	7,645	4.72	7,107	4.48
Total	202,124	100.00	202,737	100.00	197,415	100.00	189,706	100.00	180,394	100.00	174,862	100.00	168,973	100.00	162,036	100.00	158,604	100.00

Source: 1990-1998 birth records from the California Department of Health Services, Center for Health Statistics

## Percent of Live Births to Mothers Less Than 18 Years Old by Mother's Race/Ethnicity\*

Los Angeles County, 1998



Live Births	Race/Ethnicity											
	White		Hispanic		African American		Asian**/Pacific Islander		Native American		Other/Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<15	11	0.04	268	0.27	49	0.34	9	0.06	0	0.00	0	0.00
15	43	0.14	849	0.87	104	0.73	4	0.03	2	0.76	0	0.00
16	120	0.39	1,793	1.83	244	1.71	57	0.38	9	3.44	4	0.92
17	248	0.81	2,772	2.83	422	2.96	83	0.55	10	3.82	6	1.39
Total	30,621	100.00	98,074	100.00	14,246	100.00	14,968	100.00	262	100.00	433	100.00

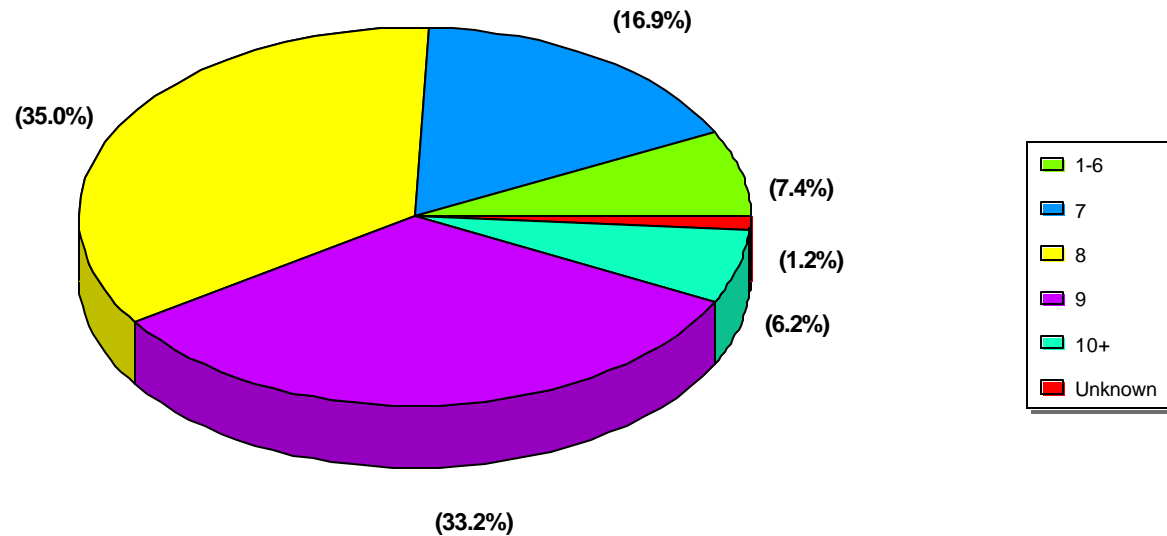
\* White, African American, Asian, Pacific Islander, Native American and other races exclude Hispanic ethnicity

Hispanic includes any race category

\*\* Filipino is included in Asian

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

**Percent of Live Births to Mothers Less Than 15 Years Old by Years of Education**  
Los Angeles County, 1998



Years of Education													
None		1-6		7		8		9		10 +		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0	0.00	25	7.42	57	16.91	118	35.01	112	33.23	21	6.23	4	1.19

Note: Total live births to mothers less than 15 years old in Los Angeles County, 1998 = 337

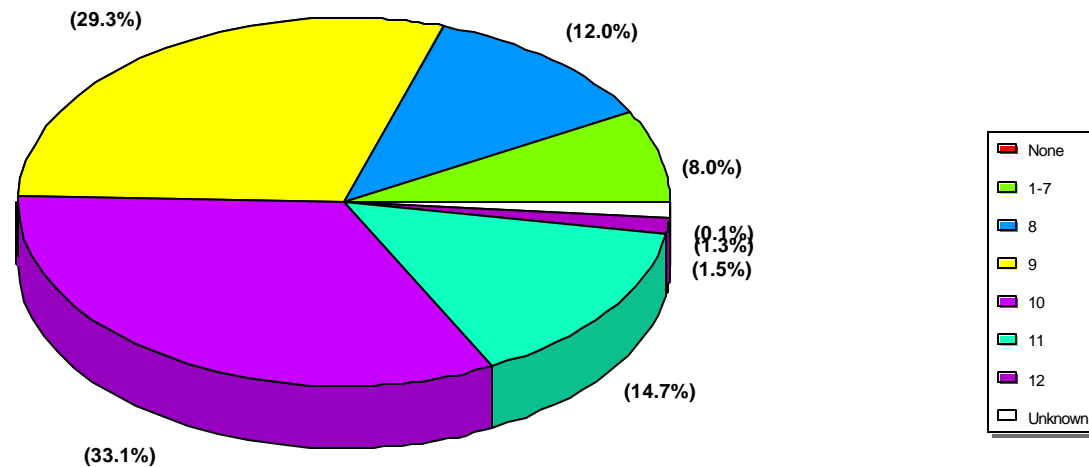
10+ : Those who had 10th grade education or higher (includes 8 births whose mother had higher than 10th grade education).

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



## Percent of Live Births to Mothers Less Than 17 Years Old by Years of Education

Los Angeles County, 1998

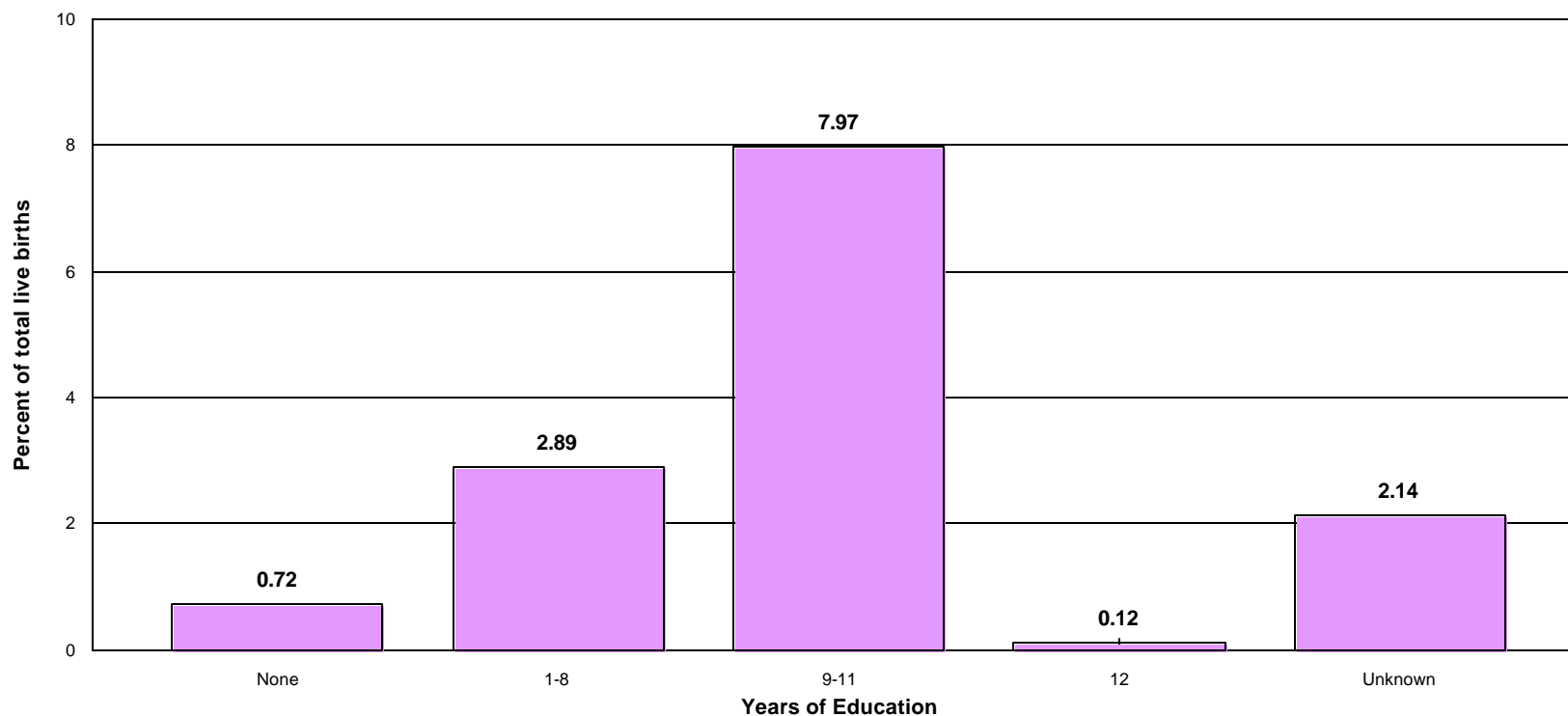


Years of Education															
None		1-7		8		9		10		11		12		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
4	0.11	287	8.05	427	11.97	1,044	29.28	1,181	33.12	523	14.67	52	1.46	48	1.35

Note: Total live births to mothers less than 17 years old in Los Angeles County, 1998 = 3,566  
Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# Live Births to Mothers Less Than 17 Years Old, as Percent of Total Live Births, by Years of Education

Los Angeles County, 1998

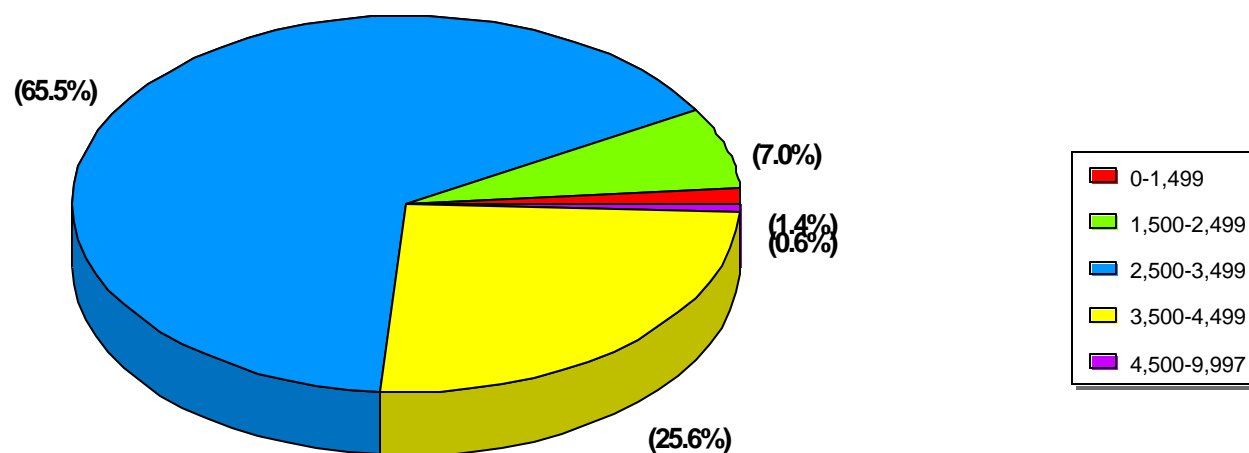


	Years of Education									
	None		1-8		9-11		12		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
< 17	4	0.72	714	2.89	2,748	7.97	52	0.12	48	2.14
Total	555	100.00	24,684	100.00	34,480	100.00	44,208	100.00	2,243	100.00

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Percent of Live Births to Mothers Less Than 17 Years Old by Birthweight

Los Angeles County, 1998

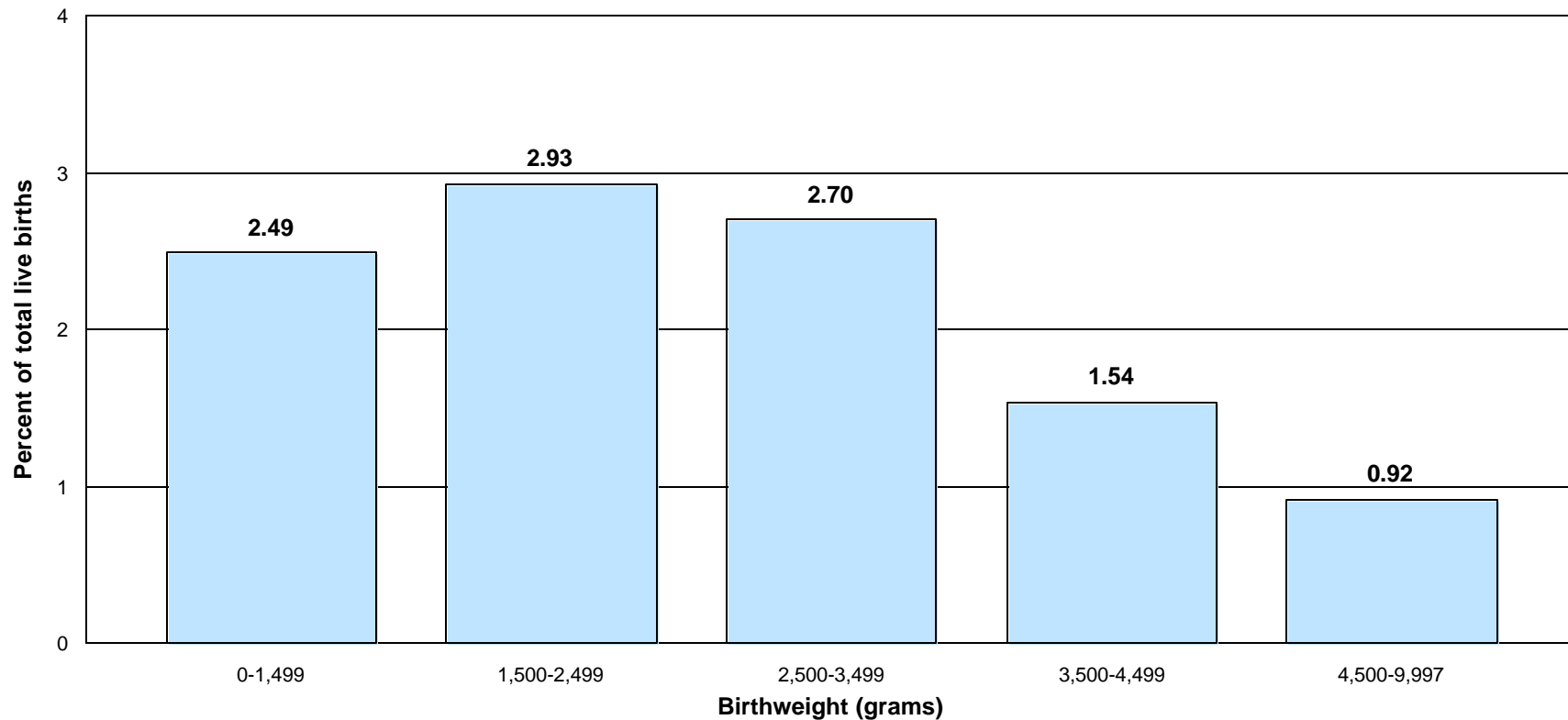


Birthweight (grams)									
0-1,499		1,500-2,499		2,500-3,499		3,500-4,499		4,500-9,997	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
48	1.35	248	6.95	2,335	65.48	912	25.57	23	0.64

Note: Total live births to mothers less than 17 years old in Los Angeles County, 1998 = 3566  
Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Live Births to Mothers Less Than 17 Years Old, as Percent of Total Live Births, by Birthweight

Los Angeles County, 1998



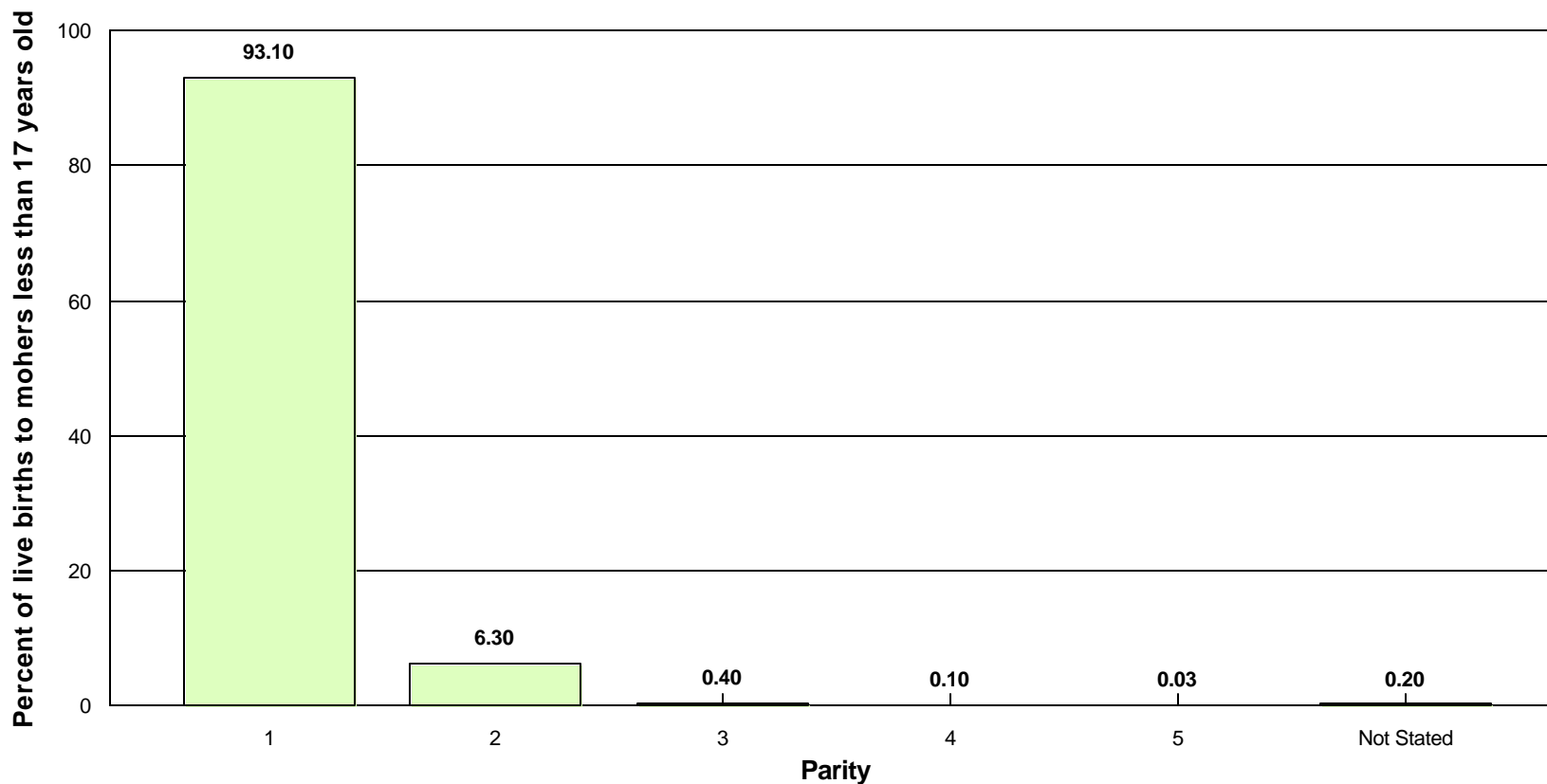
	Birthweight (grams)									
	0-1,499		1,500-2,499		2,500-3,499		3,500-4,499		4,500-9,997	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
< 17	48	2.48	248	2.93	2,335	2.70	912	1.54	23	0.92
Total	1,932	100.00	8,476	100.00	86,633	100.00	59,052	100.00	2,509	100.00

Note: Total live births in Los Angeles County = 158,604

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Percent of Live Births to Mothers Less Than 17 Years Old by Parity

Los Angeles County, 1998



Parity											
1		2		3		4		5		Not Stated	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
3,320	93.10	223	6.25	13	0.36	2	0.06	1	0.03	7	0.20

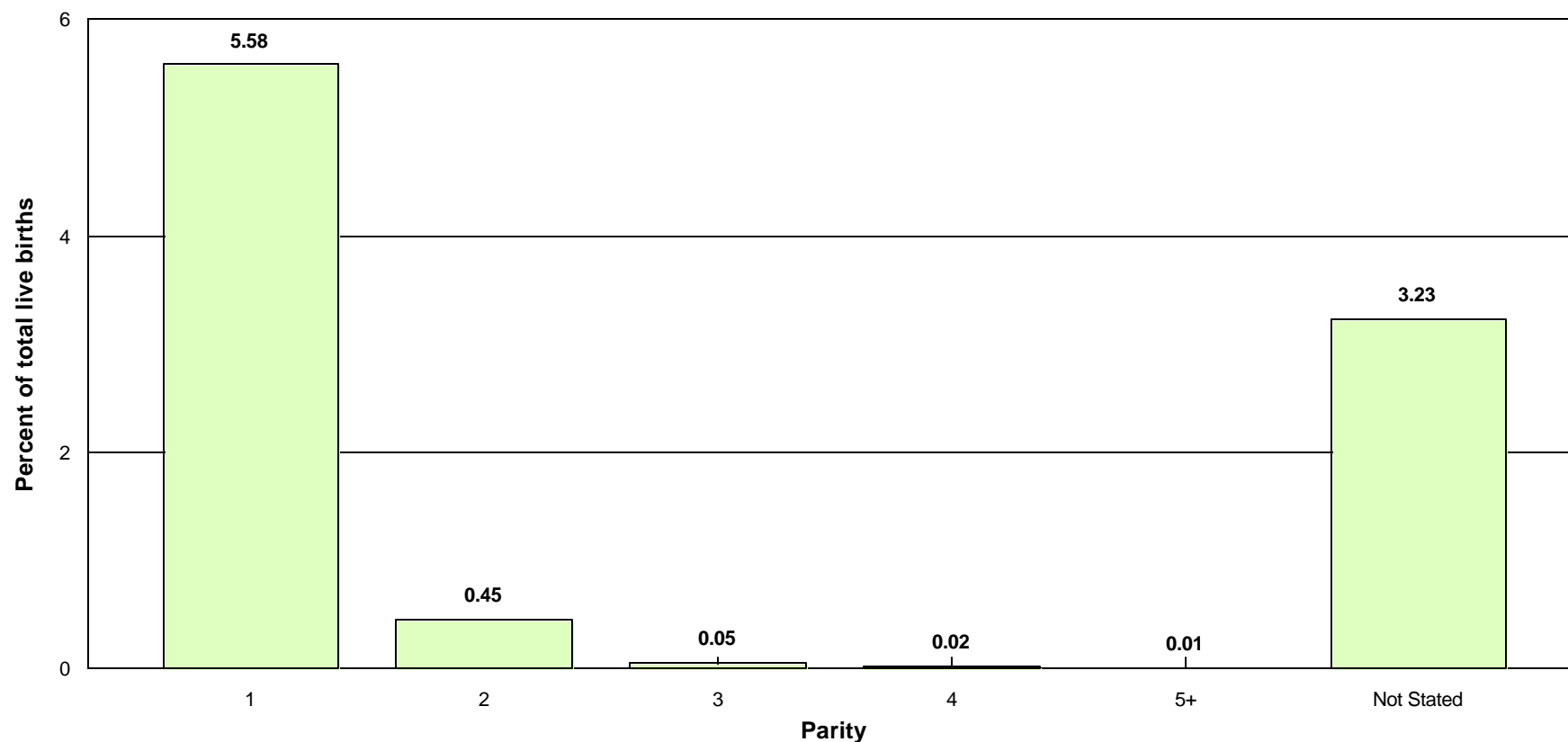
Note: Total live births to mothers less than 17 years old in Los Angeles County, 1998=3566

Parity = number of pregnancies resulting in live births to a woman

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Live Births to Mothers Less Than 17 Years Old, as Percent of Total Live Births, by Parity

Los Angeles County, 1998



	Parity											
	1		2		3		4		5+		Not Stated	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
< 17	3,320	5.58	223	0.45	13	0.05	2	0.02	1	0.01	7	3.23
Total	59,482	100.00	49,634	100.00	28,084	100.00	12,290	100.00	8,897	100.00	217	100.00

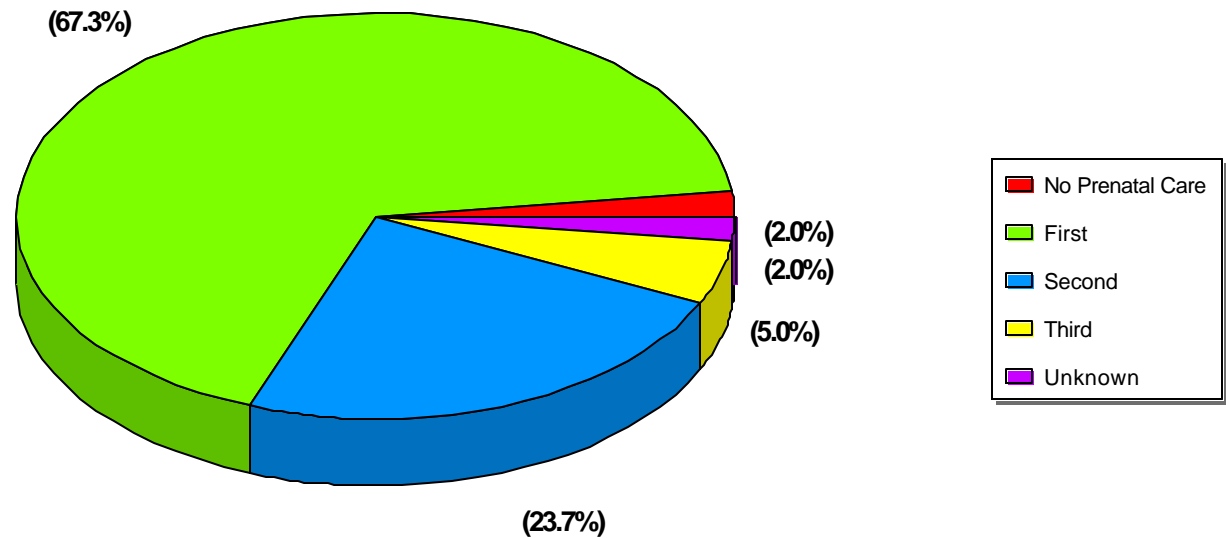
Note: Total live births in Los Angeles County = 158,604

Parity = number of pregnancies resulting in live births to a woman

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# Percent of Live Births to Mothers Less Than 17 Years Old by Trimester Prenatal Care Began

Los Angeles County, 1998



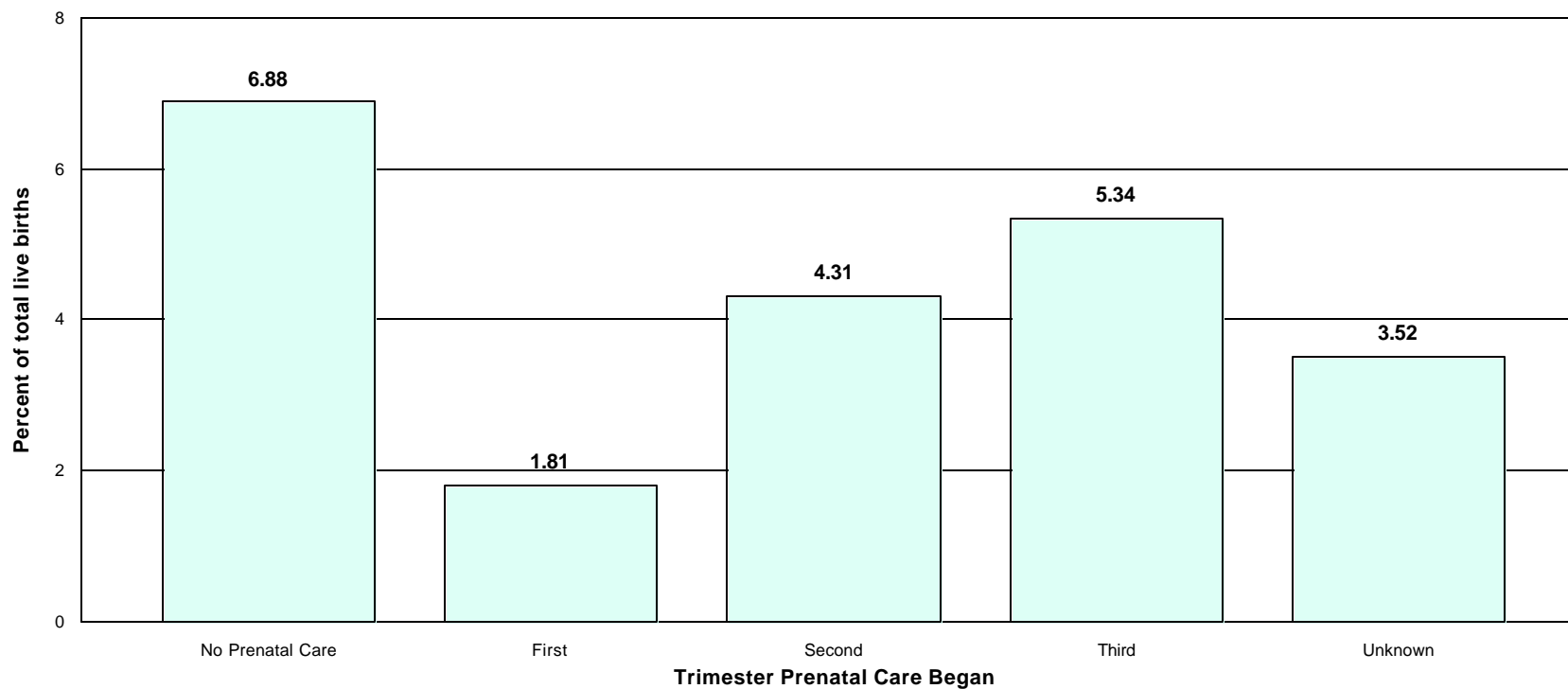
Trimester Prenatal Care Began									
No Prenatal Care		First		Second		Third		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
72	2.02	2,401	67.33	844	23.67	177	4.96	72	2.02

Note: Total live births to mothers less than 17 years old in Los Angeles County, 1998=3566

Source: 1998 births records from the California Department of Health Services, Center for Health Statistics

# Live Births to Mothers Less Than 17 Years Old, as Percent of Total Live Births, by Trimester Prenatal Care Began

Los Angeles County, 1998



	Trimester Prenatal Care Began									
	No Prenatal Care		First		Second		Third		Unknown	
Live Births	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
< 17	72	6.88	2,401	1.81	844	4.31	177	5.34	72	3.52
Total	1,046	100.00	132,607	100.00	19,590	100.00	3,315	100.00	2,046	100.00

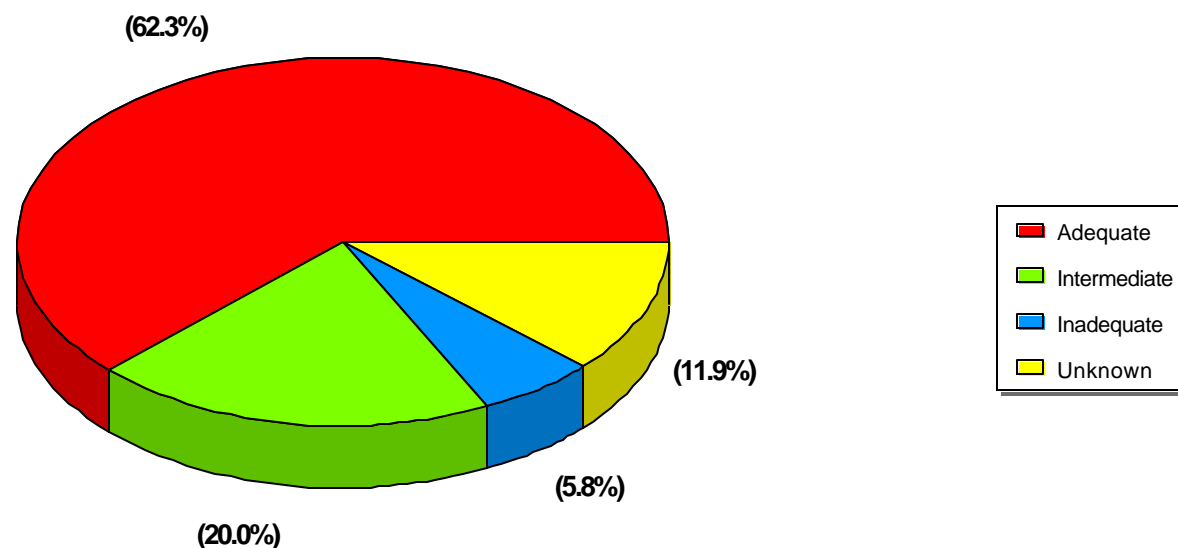
Note: Total live births in Los Angeles County =158,604

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics



## Percent of Live Births to Mothers Less Than 17 Years Old by Kessner Index

Los Angeles County, 1998



Kessner Index							
Adequate		Intermediate		Inadequate		Unknown	
Number	Percent	Number	Percent	Number	Percent	Number	Percent
2,221	62.28	715	20.05	207	5.80	423	11.86

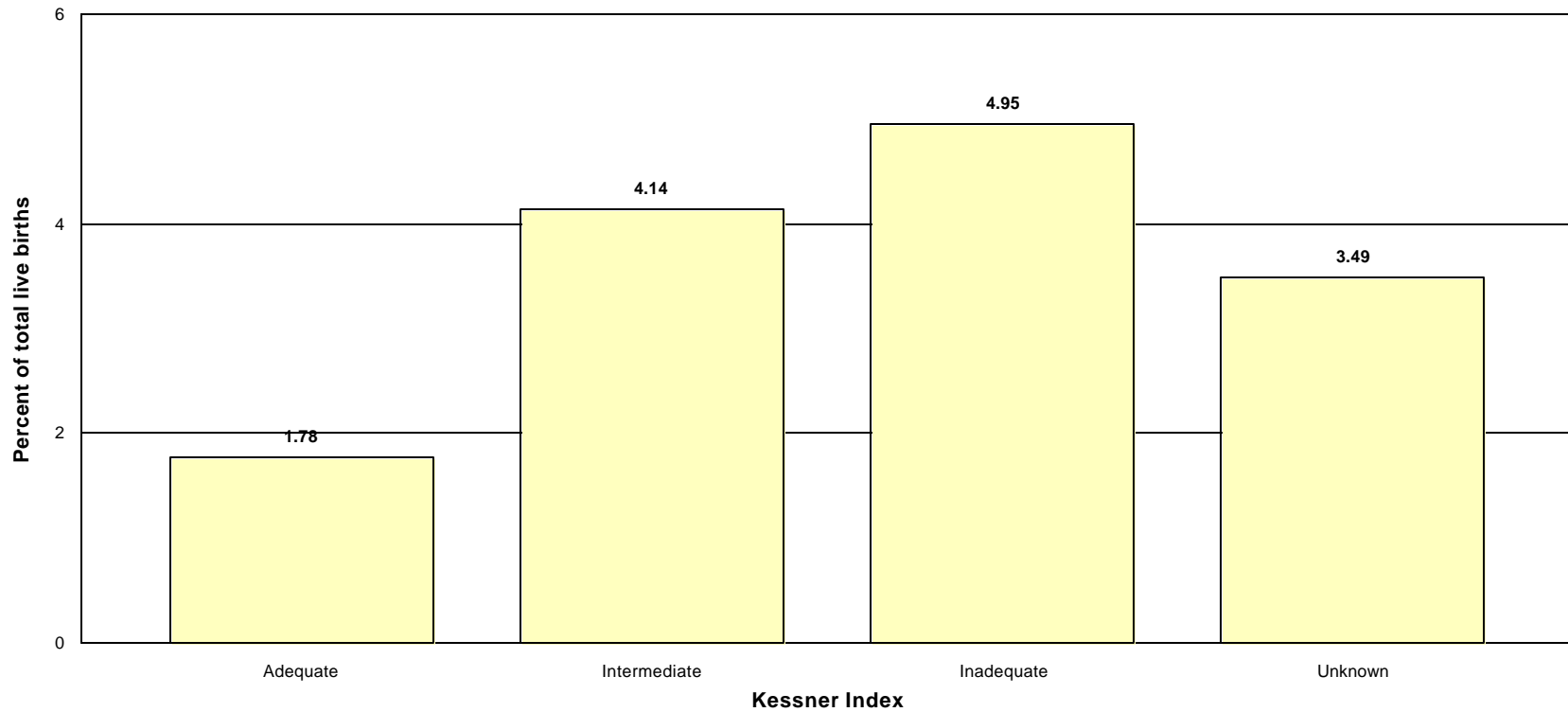
Note: Total live births to mothers less than 17 years old in Los Angeles County, 1998 = 3,972

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth record from the California Department of Health Services, Center for Health Statistics

# Live Births to Mothers Less Than 17 Years Old, as Percent of Total Live Births, by Kessner Index

Los Angeles County, 1998



Live Births	Kessner Index							
	Adequate		Intermediate		Inadequate		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
< 17	2,221	1.78	715	4.14	207	4.95	423	3.49
Total	125,042	100.00	17,271	100.00	4,182	100.00	12,109	100.00

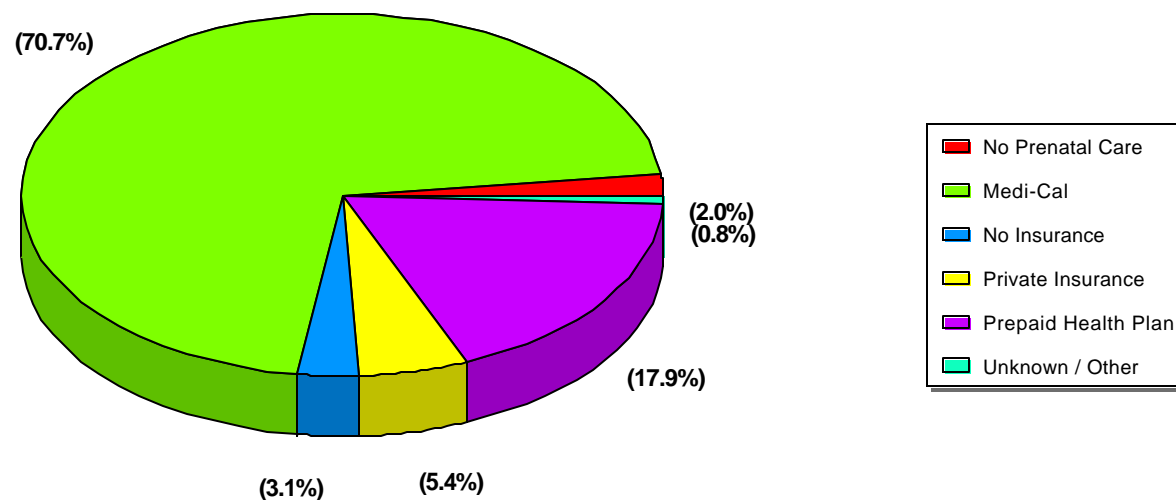
Note: Total live births in Los Angeles County 1998= 158, 604

The Kessner Index takes into account three factors: month in which prenatal care began, number of prenatal visits, and length of gestation. This measure excludes the prenatal care experiences of all women whose pregnancies did not result in a live birth.

Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

## Percent of Live Births to Mothers Less Than 17 Years by Payment Source for Prenatal Care

Los Angeles County, 1998

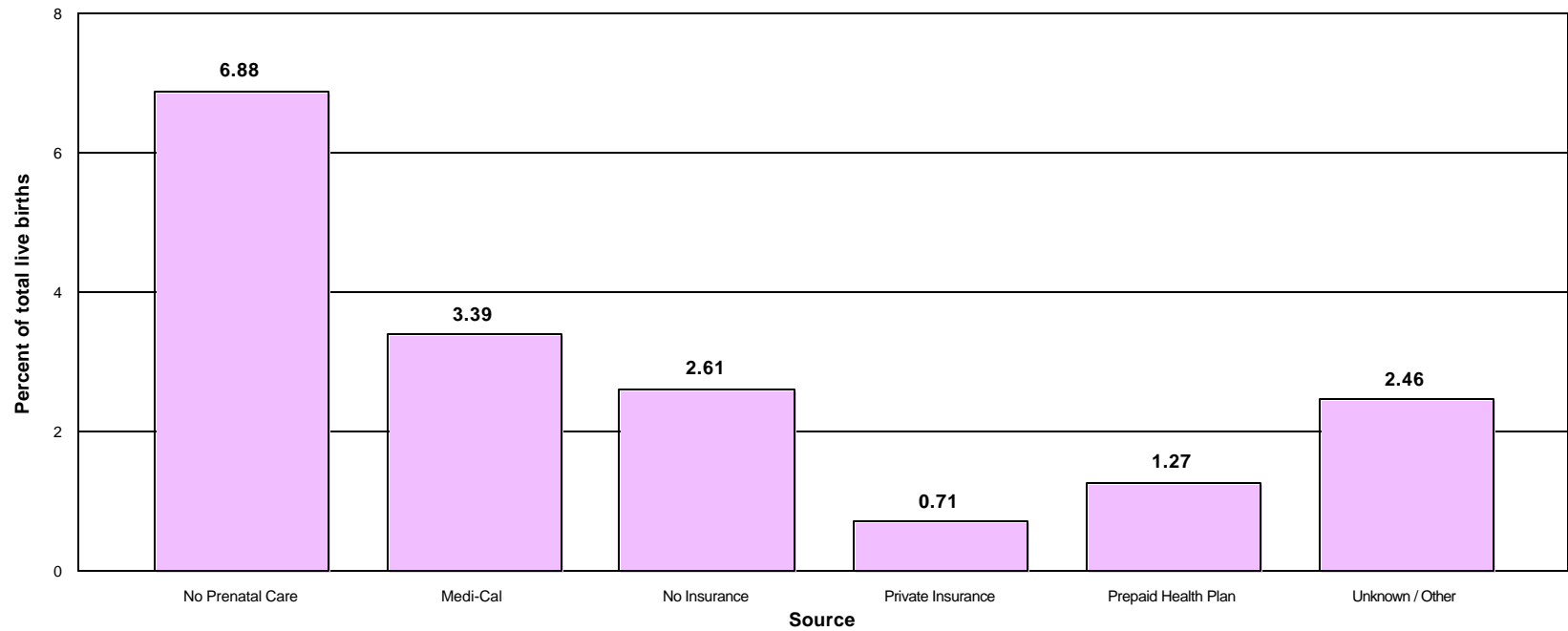


Source of Payment											
No Prenatal Care		Medi-Cal		No Insurance		Private Insurance		Prepaid Health Plan		Unknown/Other	
Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
72	2.02	2,522	70.72	112	3.14	194	5.44	638	17.89	28	0.79

Note: Total live births to mothers less than 17 years old in Los Angeles County, 1998=3,566  
Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# **Live Births to Mothers Less Than 17 Years Old, as Percent of Total Live Births, by Payment Source for Prenatal Care**

Los Angeles County, 1998

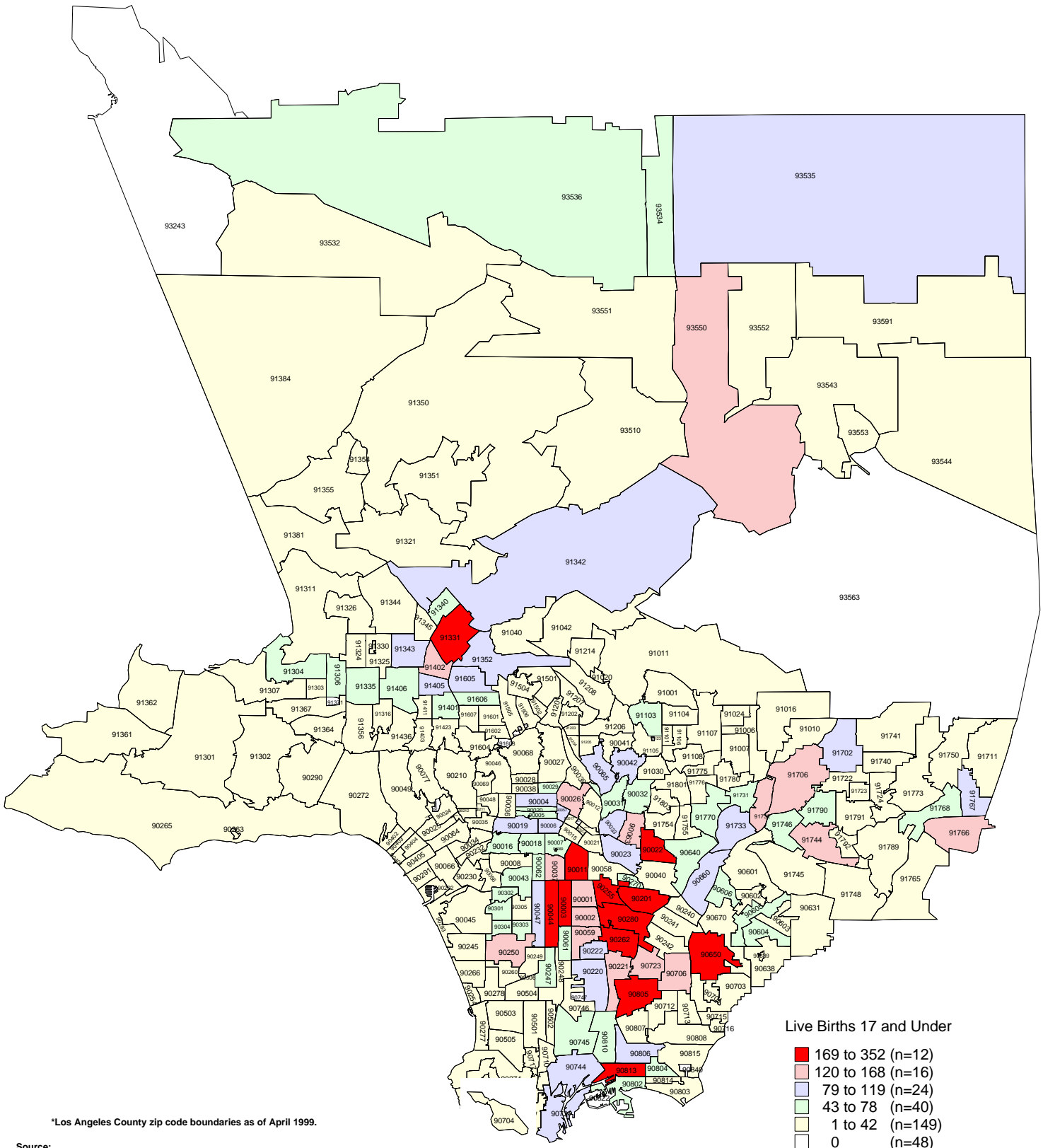


Source of Payment												
Live Births	No Prenatal Care		Medi-Cal		No Insurance		Private Insurance		Prepaid Health Plan		Unknown/Other	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<17	72	6.88	2,522	3.39	112	2.61	194	0.71	638	1.27	28	2.46
Total	1,046	100.00	74,468	100.00	4,291	100.00	27,248	100.00	50,411	100.00	1,140	100.00

Note: Total live births in Los Angeles County = 158,604  
Source: 1998 birth records from the California Department of Health Services, Center for Health Statistics

# Number of Live Births to Mothers Less Than 18 Years Old by Zip Code\*

## Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

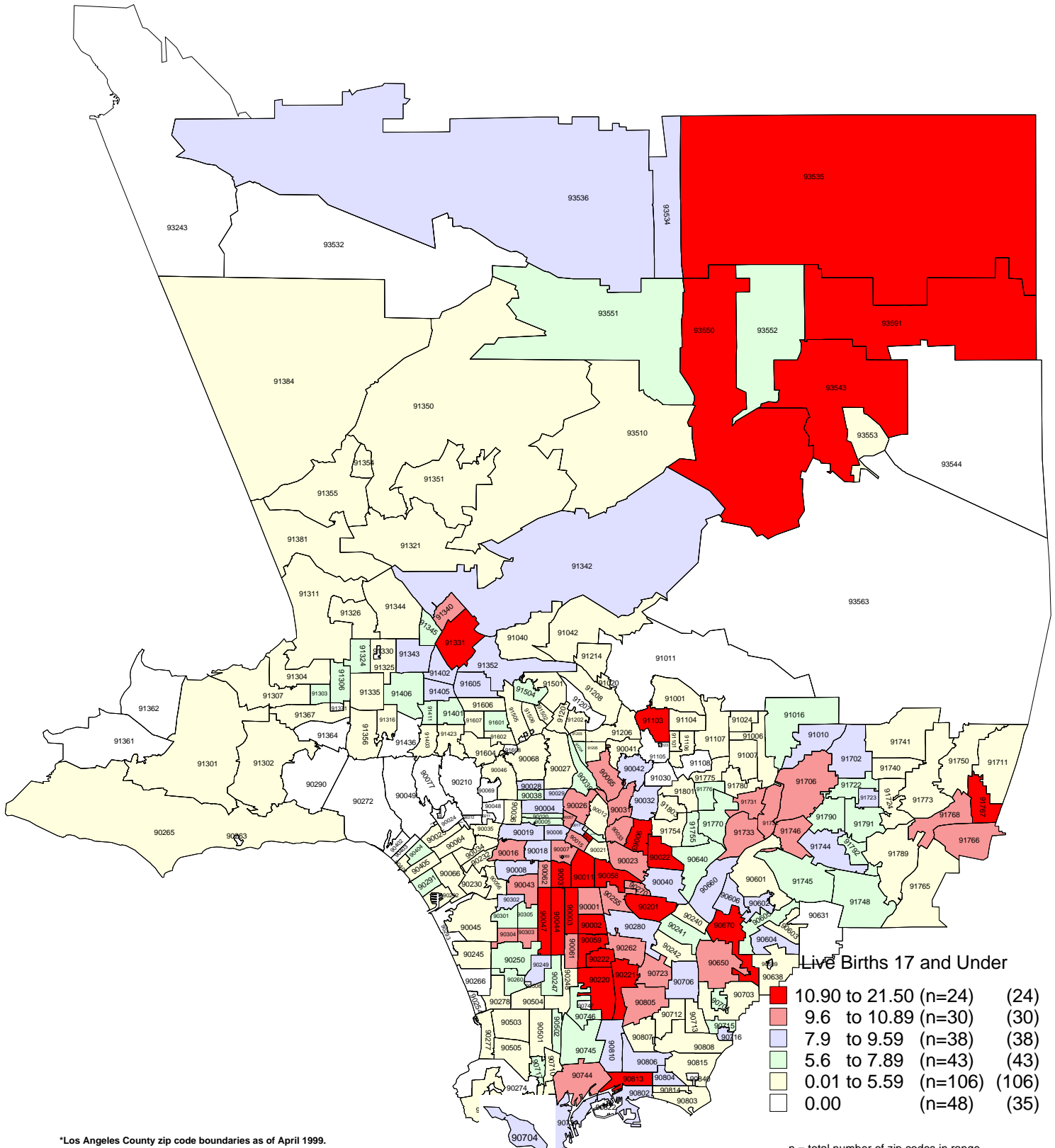
Source:  
Los Angeles County Department of Health Services,  
Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services,  
Center for Health Statistics

n = total number of zip codes in range

# Percent of Live Births to Mothers Less Than 18 Years Old by Zip Code\*

Los Angeles County, 1998



\*Los Angeles County zip code boundaries as of April 1999.

Source: Los Angeles County Department of Health Services,  
Family Health Programs, Epidemiology Assessment Unit

Based on 1998 birth records from California Department of Health Services,  
Center for Health Statistics

n = total number of zip codes in range

# **Maternal HIV Infection**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Maternal HIV infection

**DEFINITION:** The number of women with HIV infection per 10,000 live births\*

**NUMERATOR:** The number of HIV-positive women who delivered live-born infants as measured through the Center for Disease Control and Prevention (CDC) Anonymous Survey of Childbearing Women, (SCW), adjusted for survey period by county of occurrence, in a calendar year

**DENOMINATOR:** The total number of blood specimens tested through the CDC SCW, by county of occurrence, in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Confine the prevalence of HIV infection among women giving birth to live-born infants to no more than 100 per 100,000.  
(Baseline:150 per 100,000 in 1989) (Objective 18.2c)

**RISK FACTORS:** Young maternal age/teenage pregnancy; low income; race/ethnicity; substance use/abuse (IDU); addiction to crack cocaine; trading sex for drugs/money; transfusion; high risk/unsafe sexual practices (e.g., anal intercourse; multiple sexual partners; high risk sexual partners including injection drug users, HIV-infected, or homosexual contacts)

California Maternal HIV Infection					
Year	Number tested	Number HIV+	Rate (per 10,000)	Lower 95% CI	Upper 95% CI
1988-1990	430,586	299	6.9	6.2	7.7
1992	150,494	106	7.0	5.7	8.4
1994	143,095	105	7.3	5.9	8.7
1995	135,991	88	6.5	5.1	7.8

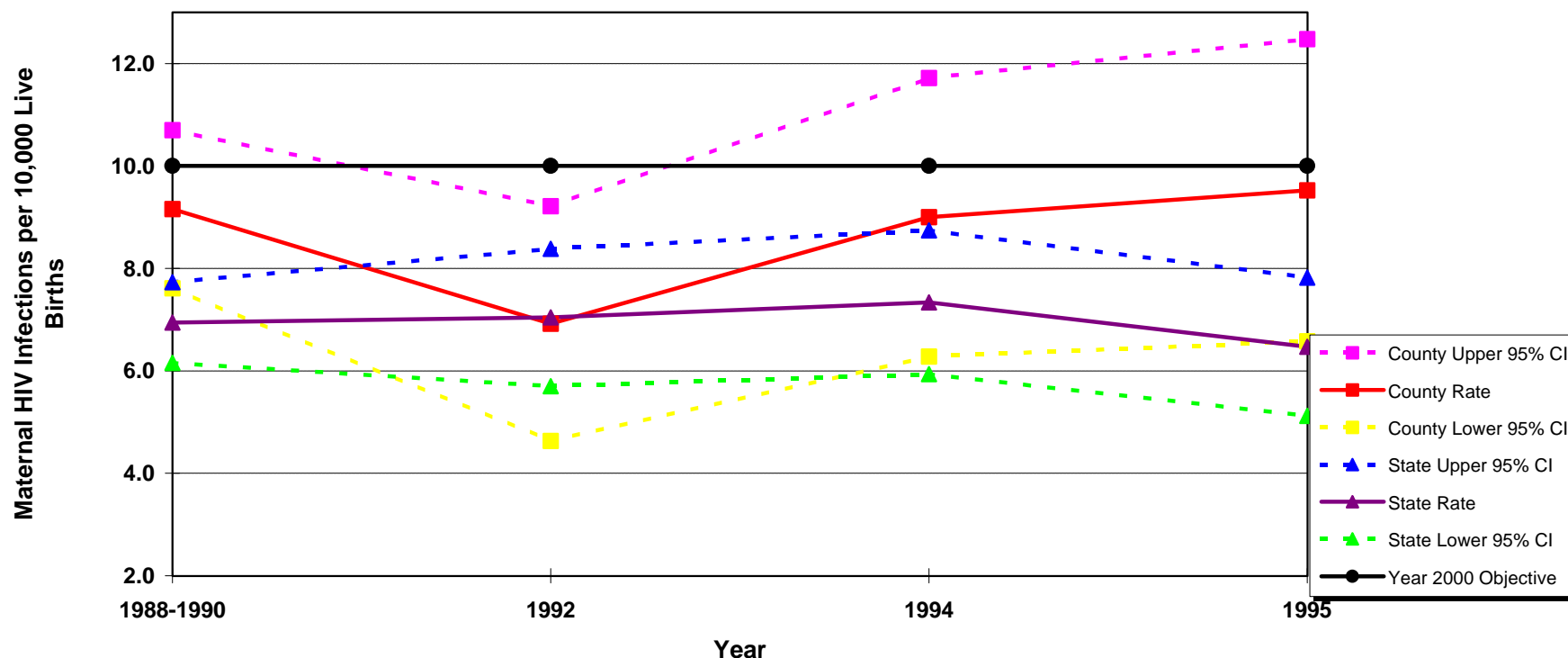
County Maternal HIV Infection					
Year	Number tested	Number HIV+	Rate (per 10,000)	Lower 95% CI	Upper 95% CI
1988-1990	147,411	135	9.2	7.6	10.7
1992	50,561	35	6.9	4.6	9.2
1994	46,667	42	9.0	6.3	11.7
1995	41,989	40	9.5	6.6	12.5

**Source:** California HIV/AIDS Update, Office of AIDS, April 1992  
HIV Seroprevalence in CA Childbearing Women, 1994, Office of AIDS, HIV/AIDS Epidemiology Branch

**Notes:** \*As estimated through the CDC Anonymous Survey in Childbearing Women (SCW) using leftover heel-stick blood taken from newborn infants in participating states.



# **Maternal HIV Infections per 10,000 Live Births California vs. Los Angeles County 1988-1990 Average, 1992, 1994 - 1995**



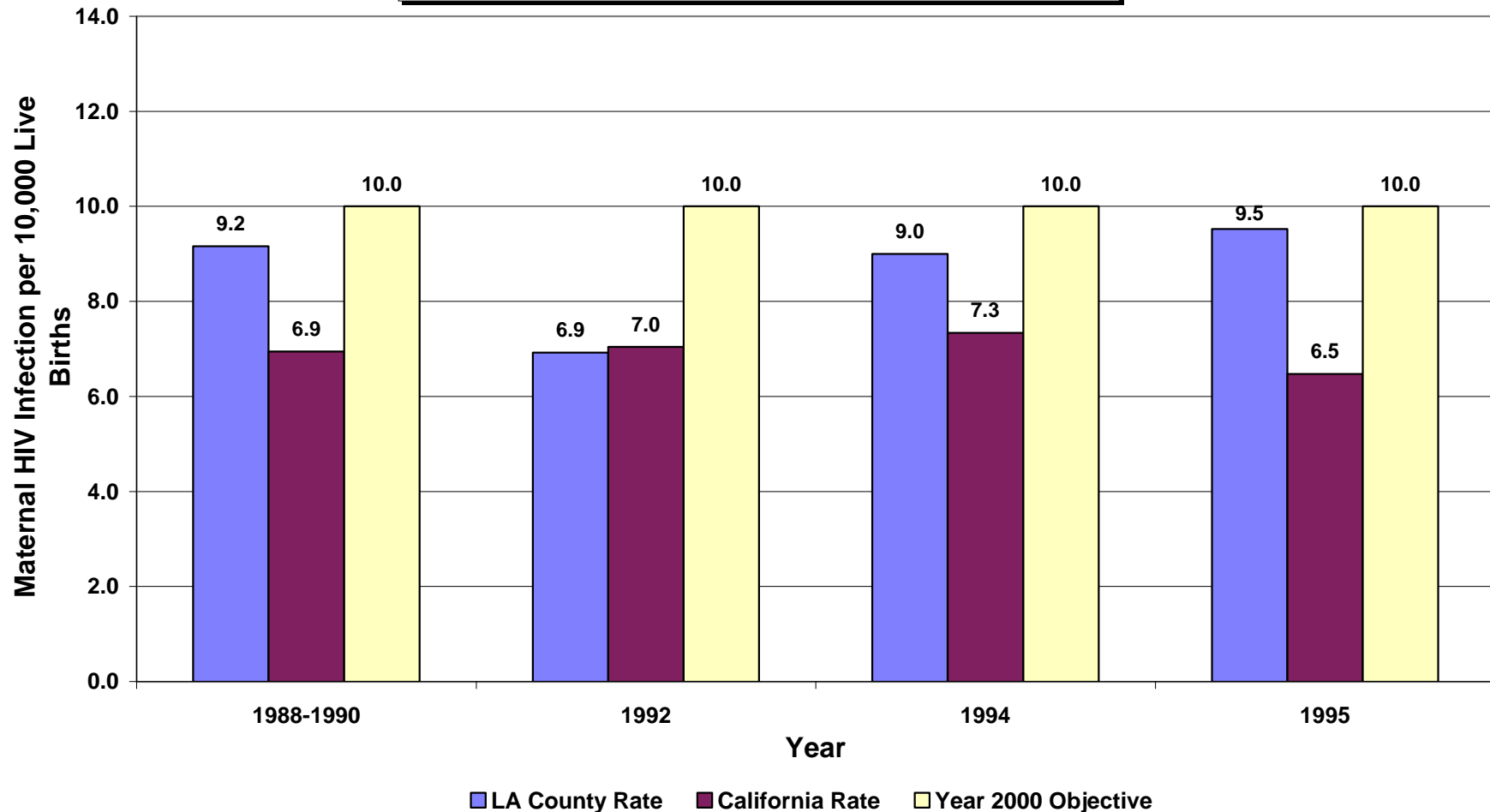
**Year 2000 Objective:** Confine the prevalence of HIV infection among women giving birth to live-births infants to no more than 100 per 100,000

**Notes:** As estimated through the CDC Anonymous Survey in Childbearing Women (SCW) using leftover heel-stick blood taken from newborn infants in participating states.

**Source:** California HIV/AIDS Update, Office of AIDS, April 1992

HIV Seroprevalence in CA Childbearing Women, 1994, Office of AIDS, HIV/AIDS Epidemiology Branch

**Maternal HIV Infection Per 10,000 Live Births  
California vs. Los Angeles County  
1988-1990 Average, 1992, 1994 - 1995**



**Year 2000 Objective:** Confine the prevalence of HIV infection among women giving birth to live-births infants to no more than 100 per 100,000

**Notes:** As estimated through the CDC Anonymous Survey in Childbearing Women (SCW) using leftover heel-stick blood taken from newborn infants in participating states.

**Source:** California HIV/AIDS Update, Office of AIDS, April 1992

HIV Seroprevalence in CA Childbearing Women, 1994, Office of AIDS, HIV/AIDS Epidemiology Branch

# Breastfeeding

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Proportion of mothers who intend to exclusively breastfeed\* their infants at hospital discharge

**NUMERATOR:** Number of mothers who express their intent to exclusively\* breastfeed their infant at hospital discharge, by place of residence

**DENOMINATOR:** Total number of live births for whom the new born genetic screening form is completed, by place of residence

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Increase to at least 75% the proportion of mothers who breast-feed their babies in the early post-partum period. (Objective 2.11 &14.9)

**RISK FACTORS FOR NOT INTENDING TO BREASTFEED:**

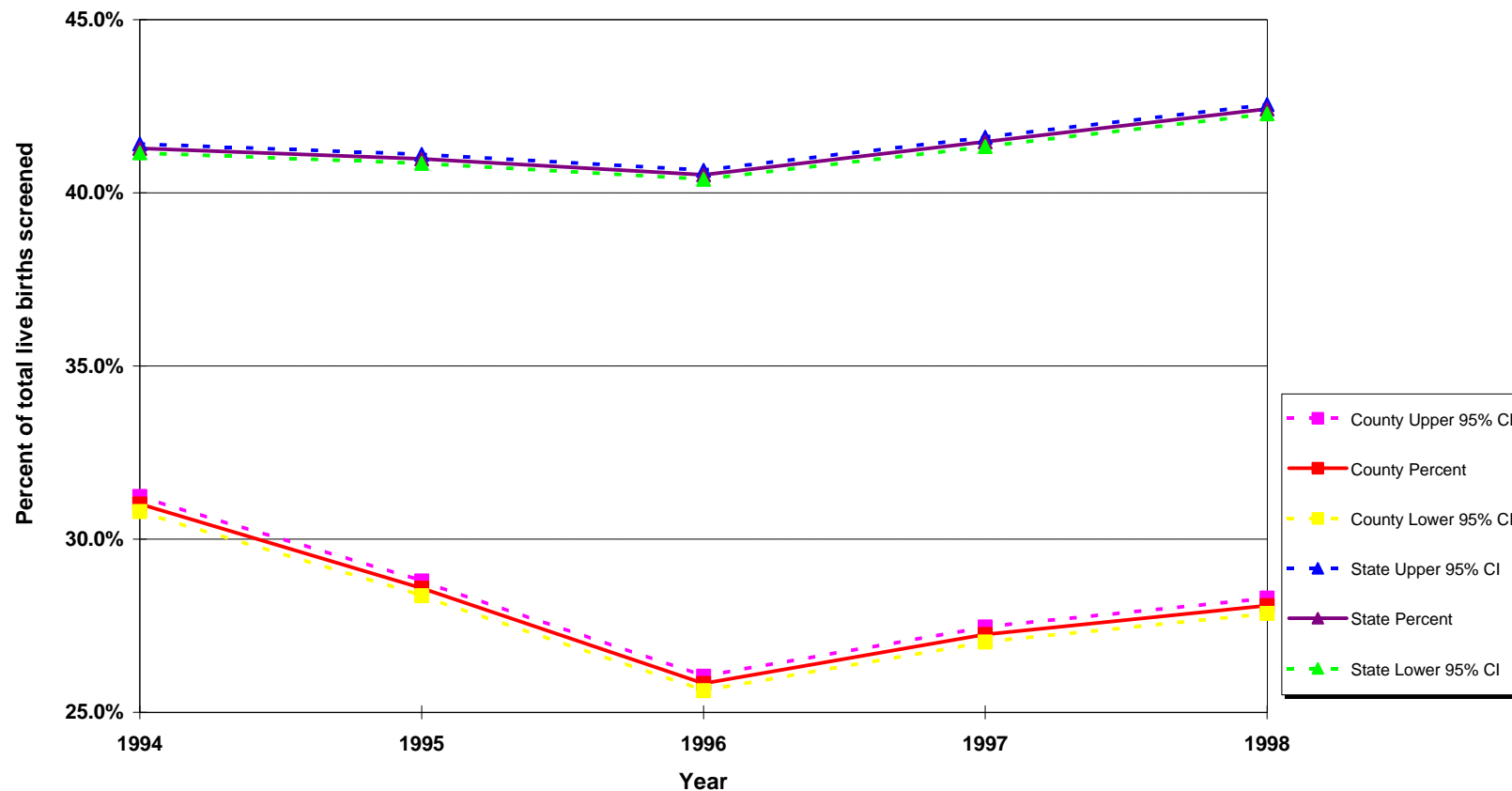
Working mothers, lack of prenatal care, lack of prenatal WIC services, lower maternal education level, low income, Southeast Asian ethnicity, black race, less than 20 years of age.

	California				LA County				DENOMINATOR: Newborns Screened	
			95% Confidence Interval				95% Confidence Interval			
Year	Number	Percent	Lower	Upper	Number	Percent	Lower	Upper	State	County
1994	228,343	41.3%	41.2%	41.4%	55,787	31.0%	30.8%	31.2%	553,102	179,870
1995	220,589	41.0%	40.8%	41.1%	49,775	28.6%	28.4%	28.8%	538,296	174,146
1996	213,959	40.5%	40.4%	40.7%	43,683	25.8%	25.6%	26.0%	528,033	169,077
1997	213,949	41.5%	41.3%	41.6%	44,300	27.2%	27.0%	27.5%	515,853	162,583
1998	218,116	42.4%	42.3%	42.6%	44,885	28.1%	27.9%	28.3%	514,167	159,853

**Note:** These data indicate in-hospital breastfeeding choices as indicated on the newborn screening form.

**Sources:** Newborn Screening Test data prepared by the Epidemiology and Evaluation Section, Maternal and Child Health Branch, California Department of Health Services

# Proportion of Mothers who Intend to Exclusively Breastfeed Their Infants at Hospital Discharge County vs. California 1994 - 1998



**Note:** These data indicate in-hospital breastfeeding choices as indicated on the newborn screening form.  
**Sources:** Newborn Screening Test data prepared by the Epidemiology and Evaluation Section, Maternal and Child Health Branch,  
 California Department of Health Services

# **Hospitalizations Due to Injuries Among Children and Youth**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Hospitalizations among children and youth due to unintentional injuries

**DEFINITION:** The rate per 100,000 children and youth (ages 0 through 24) of hospitalizations due to unintentional injuries (E-codes 800.0-949.9)

**NUMERATOR:** The number of hospitalizations to children and youth (ages 0 through 24 years) caused by unintentional injuries (E-codes 800.0-949.9), by place of residence

**DENOMINATOR:** The total population ages 0 through 24, by place of residence

### HEALTHY PEOPLE 2000 OBJECTIVE:

Reduce unintentional injury hospitalizations to no more than 754 per 100,000 (Objective 9.2)

### Hospitalizations due to unintentional injuries among children and youth (0-24 years)

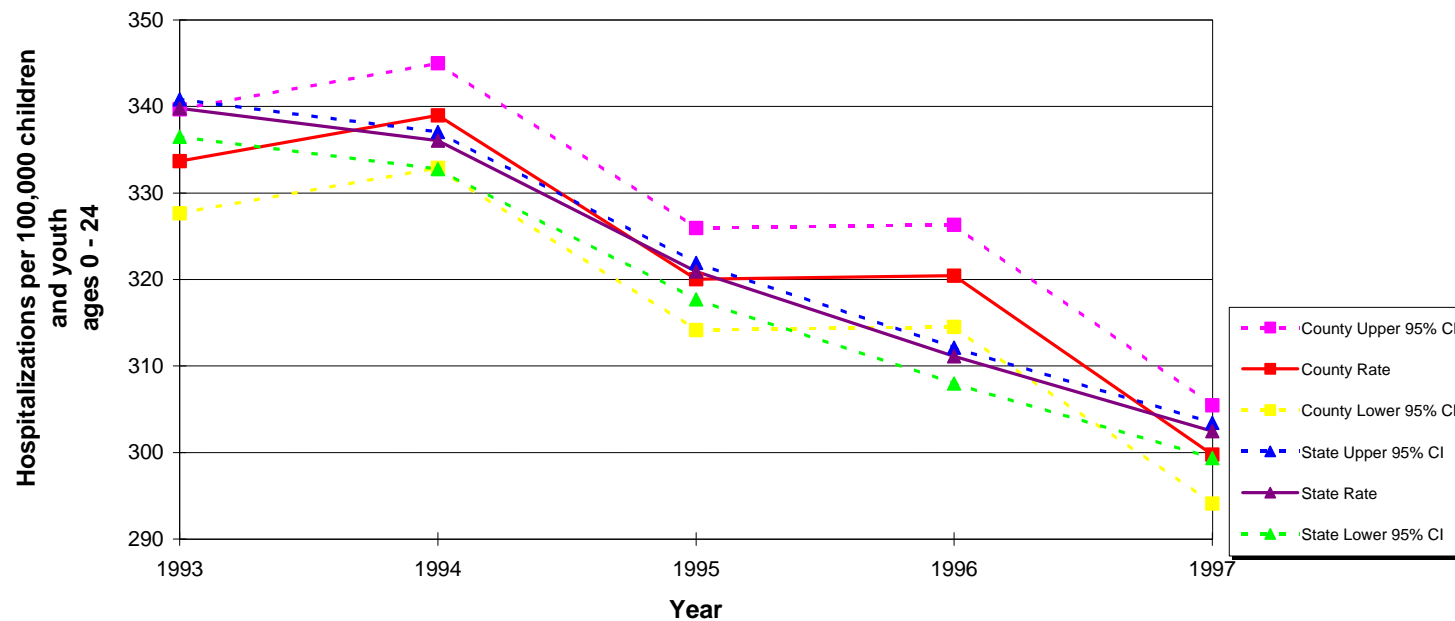
	California				County			
			95% Confidence Interval				95% Confidence Interval	
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1993	40,191	339.8	336.5	340.8	11,827	333.7	327.7	339.7
1994	39,929	336.0	332.7	337.1	12,021	339.0	332.9	345.0
1995	38,244	320.9	317.7	321.9	11,296	320.0	314.2	325.9
1996	37,248	311.1	308.0	312.1	11,273	320.4	314.5	326.3
1997	36,923	302.5	299.4	303.4	10,702	299.8	294.1	305.5

DENOMINATOR: Total population ages 0 through 24		
Year	State	County
1993	11,827,912	3,544,537
1994	11,882,205	3,546,404
1995	11,916,553	3,529,488
1996	11,971,762	3,518,026
1997	12,207,730	3,569,947

**Sources:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch

Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

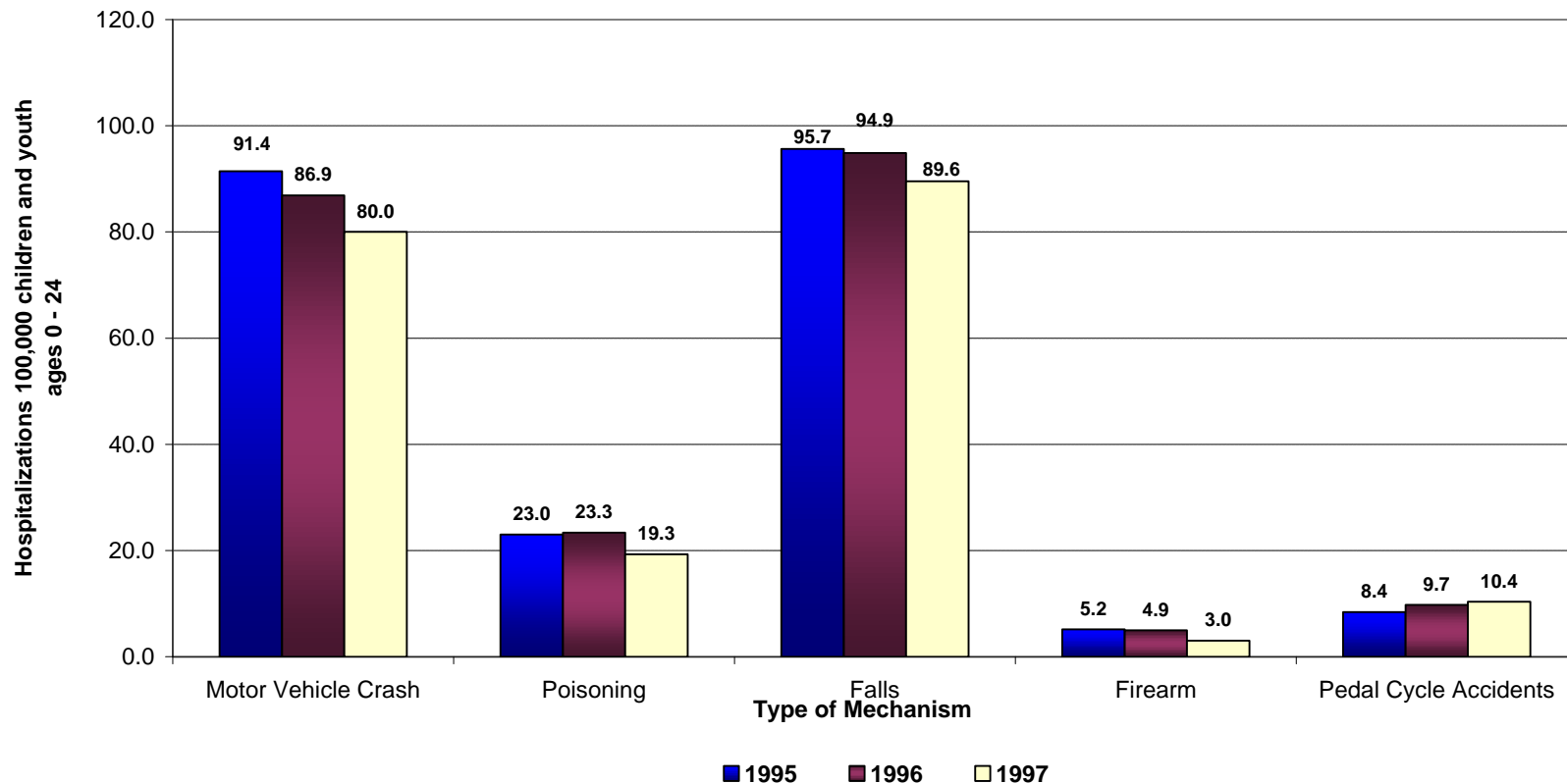
### Hospitalizations Due to Unintentional Injuries per 100,000 Children and Youth Ages 0 - 24 Years California vs. Los Angeles County, 1993 - 1997



**Sources:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

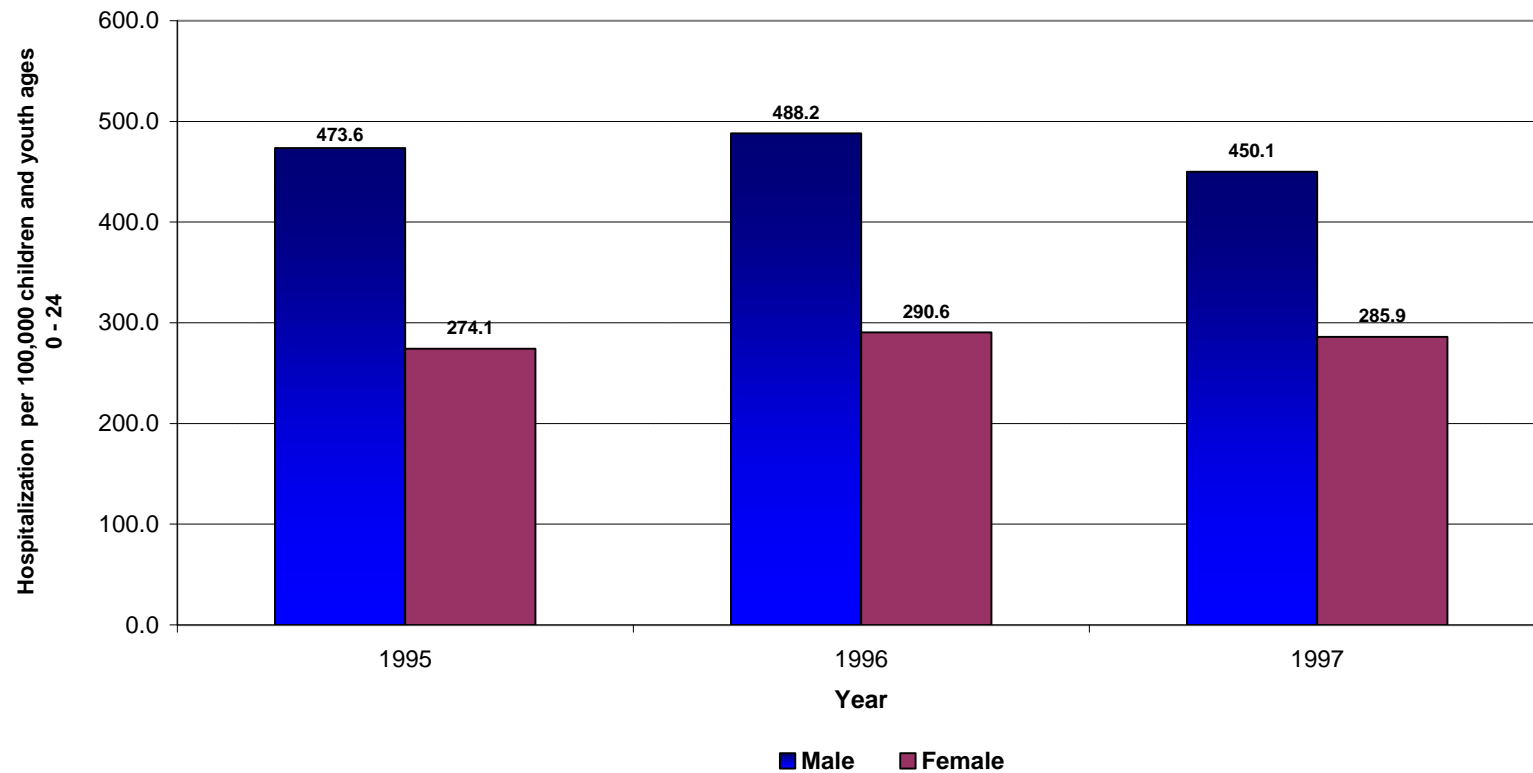


**Hospitalizations Due to Unintentional Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Selected Mechanisms  
Los Angeles County, 1995 - 1997**

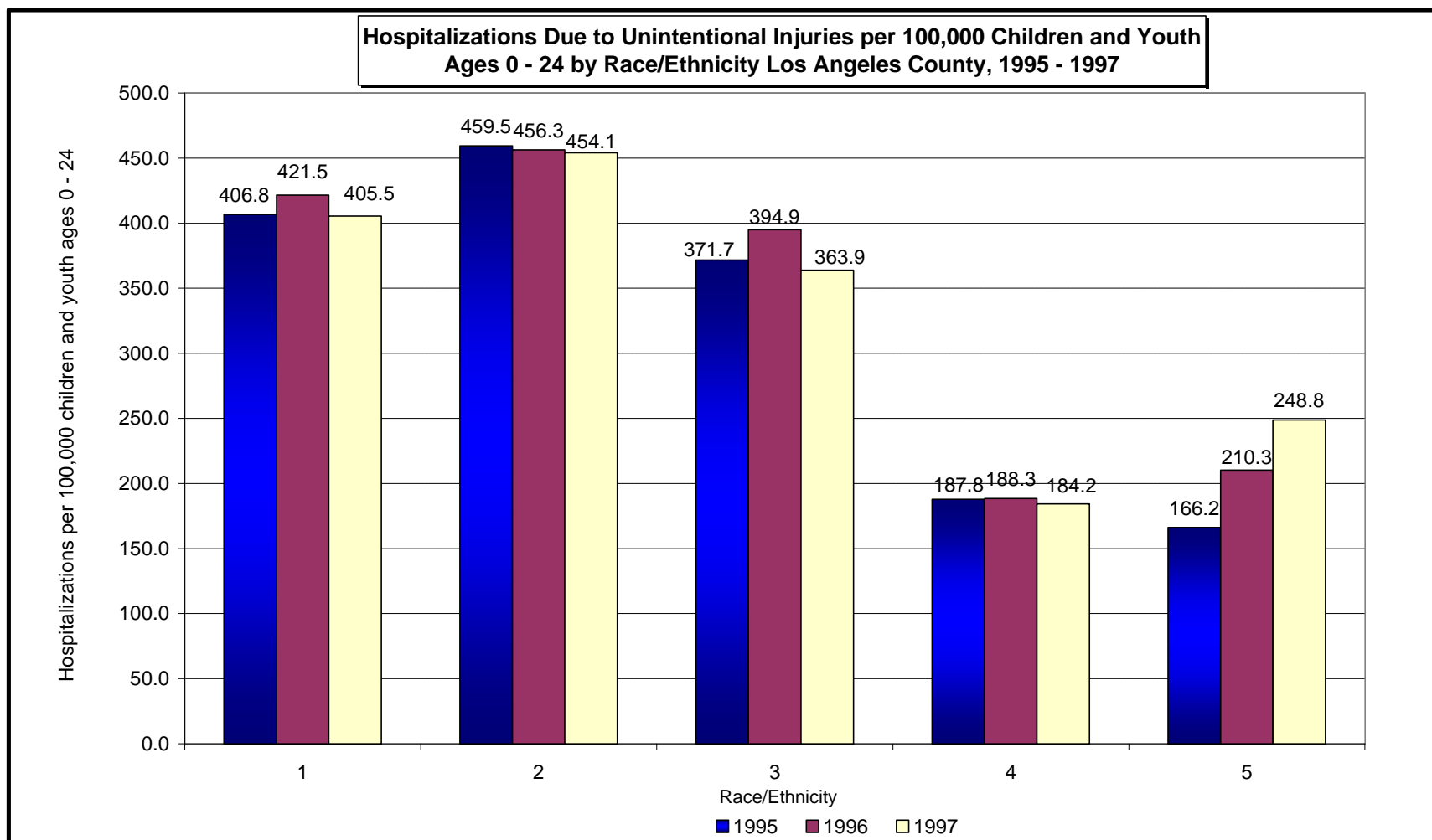


Sources: 1995 -1997 Hospital discharge data from the Office of Statewide Health Planning and Development  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
 Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Unintentional Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Gender  
Los Angeles County, 1995 - 1997**



Sources: 1995 -1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998



Sources: 1995 -1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services,  
Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
Counties with Age and Gender Detail, Sacramento, California, December, 1998  
Note: Other or Unknown racial/ethnic groups are not included in this analysis.

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Hospitalizations among children and youth due to intentional injuries

**DEFINITION:** The rate per 100,000 children and youth (ages 0 through 24) of hospitalizations due to assaultive intentional injuries (E960.0-969.9)

**NUMERATOR:** The number of hospitalizations to children and youth (ages 0 through 24 years) caused by intentional injuries (E960.0-969.9) by place of residence

**DENOMINATOR:** The total population ages 0 through 24, by place of residence

**HEALTHY PEOPLE 2000 OBJECTIVE:**  
None

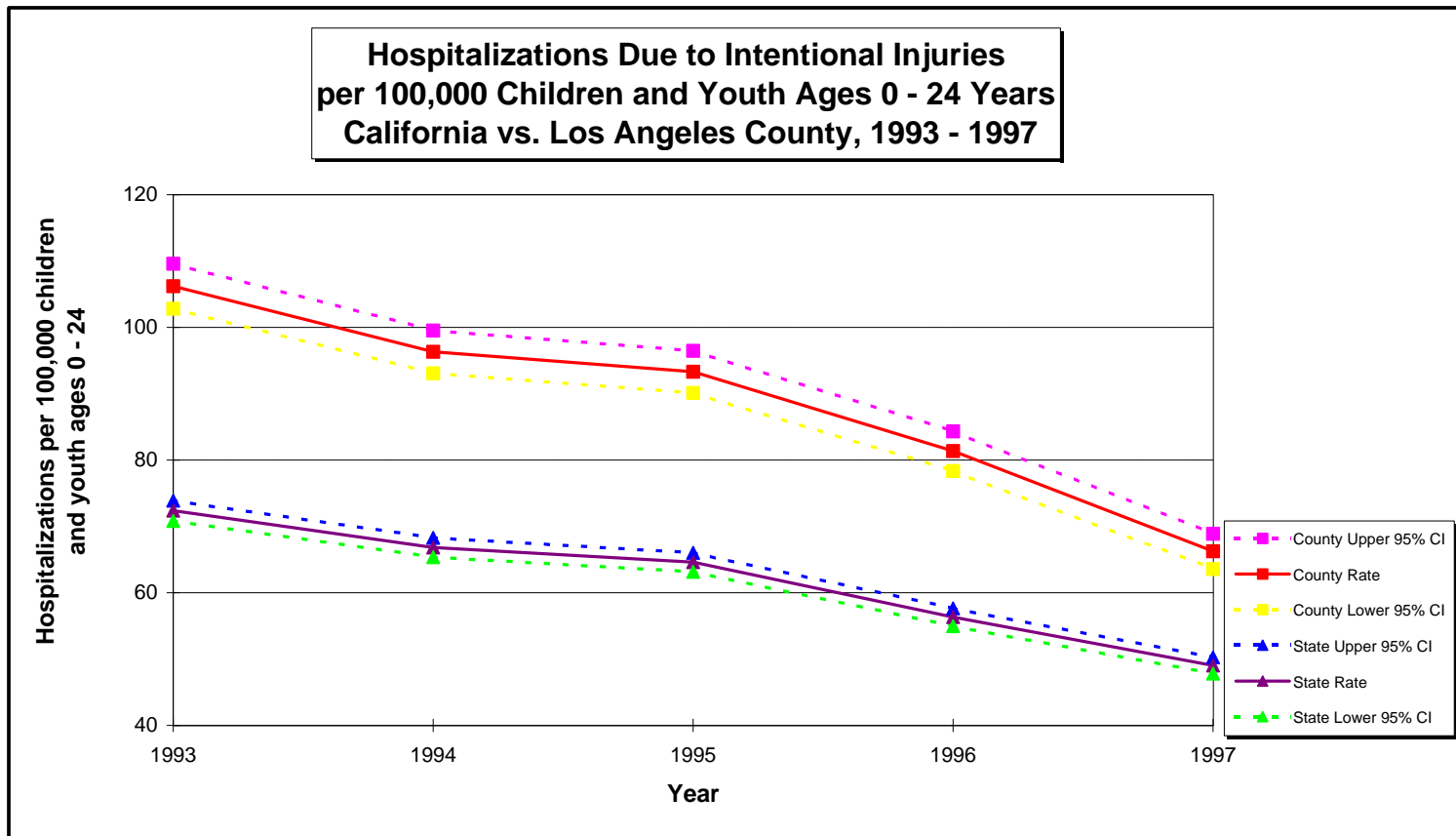
### Hospitalizations due to intentional injuries among children and youth (0-24 years)

	California				County			
			95% Confidence Interval				95% Confidence Interval	
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1993	8,558	72.4	70.8	73.9	3,765	106.2	102.8	109.6
1994	7,940	66.8	65.4	68.3	3,416	96.3	93.1	99.6
1995	7,697	64.6	63.1	66.0	3,293	93.3	90.1	96.5
1996	6,742	56.3	55.0	57.7	2,862	81.4	78.4	84.3
1997	6,098	49.0	47.8	50.3	2,365	66.2	63.6	68.9

DENOMINATOR: Total population ages 0 through 24		
Year	State	County
1993	11,827,912	3,544,537
1994	11,882,205	3,546,404
1995	11,916,553	3,529,488
1996	11,971,762	3,518,026
1997	12,437,256	3,569,947

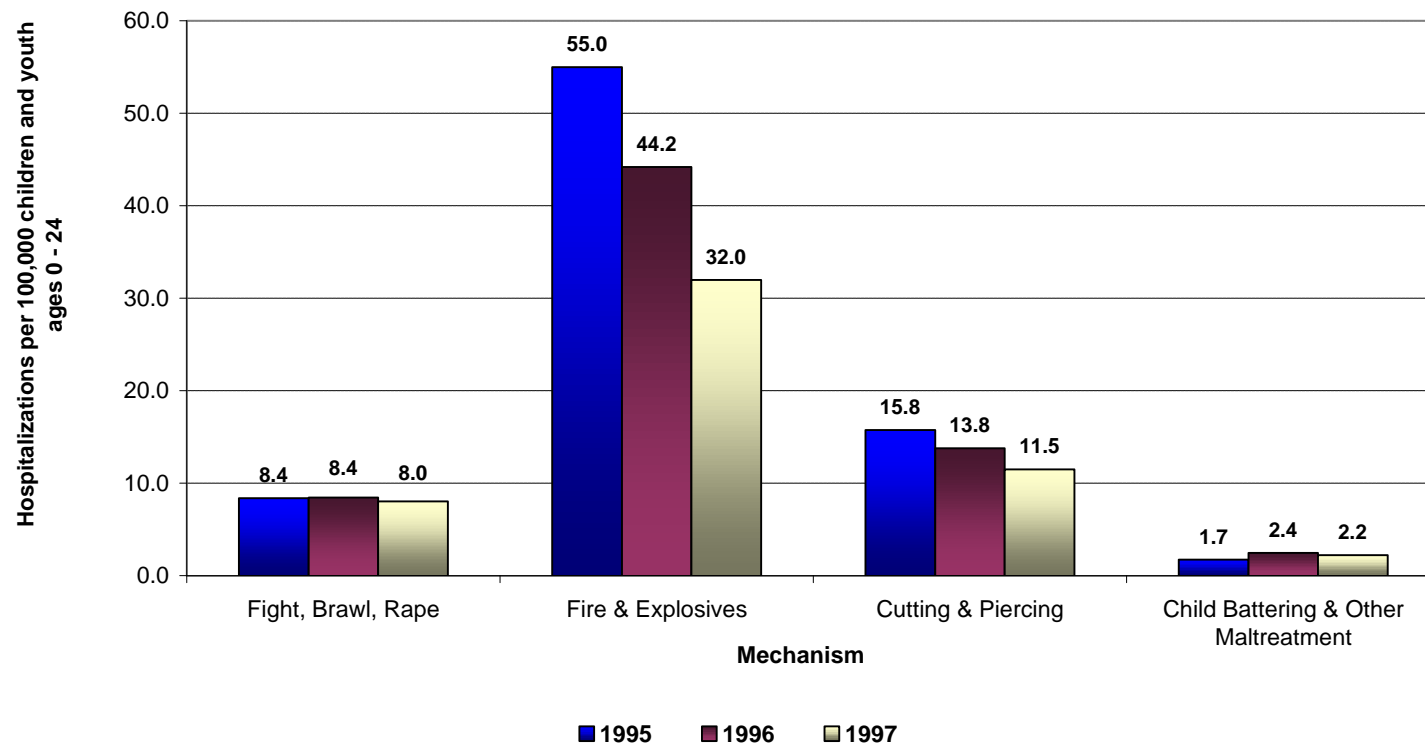
**Sources:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch

Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998



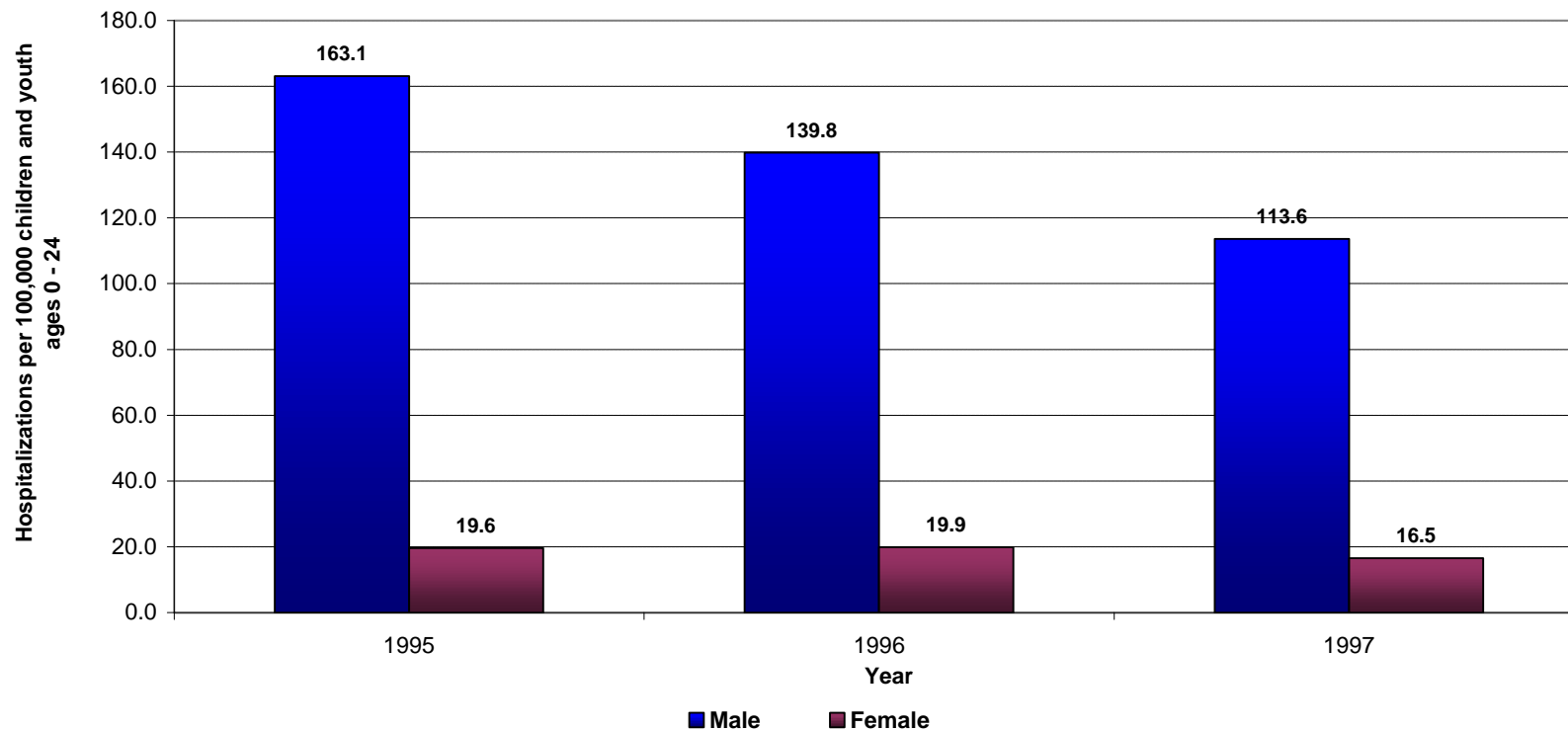
**Sources:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Intentional Injuries  
per 100,000 Children and Youth Ages 0 - 24 By Selected Mechanisms  
Los Angeles County, 1995 - 1997**



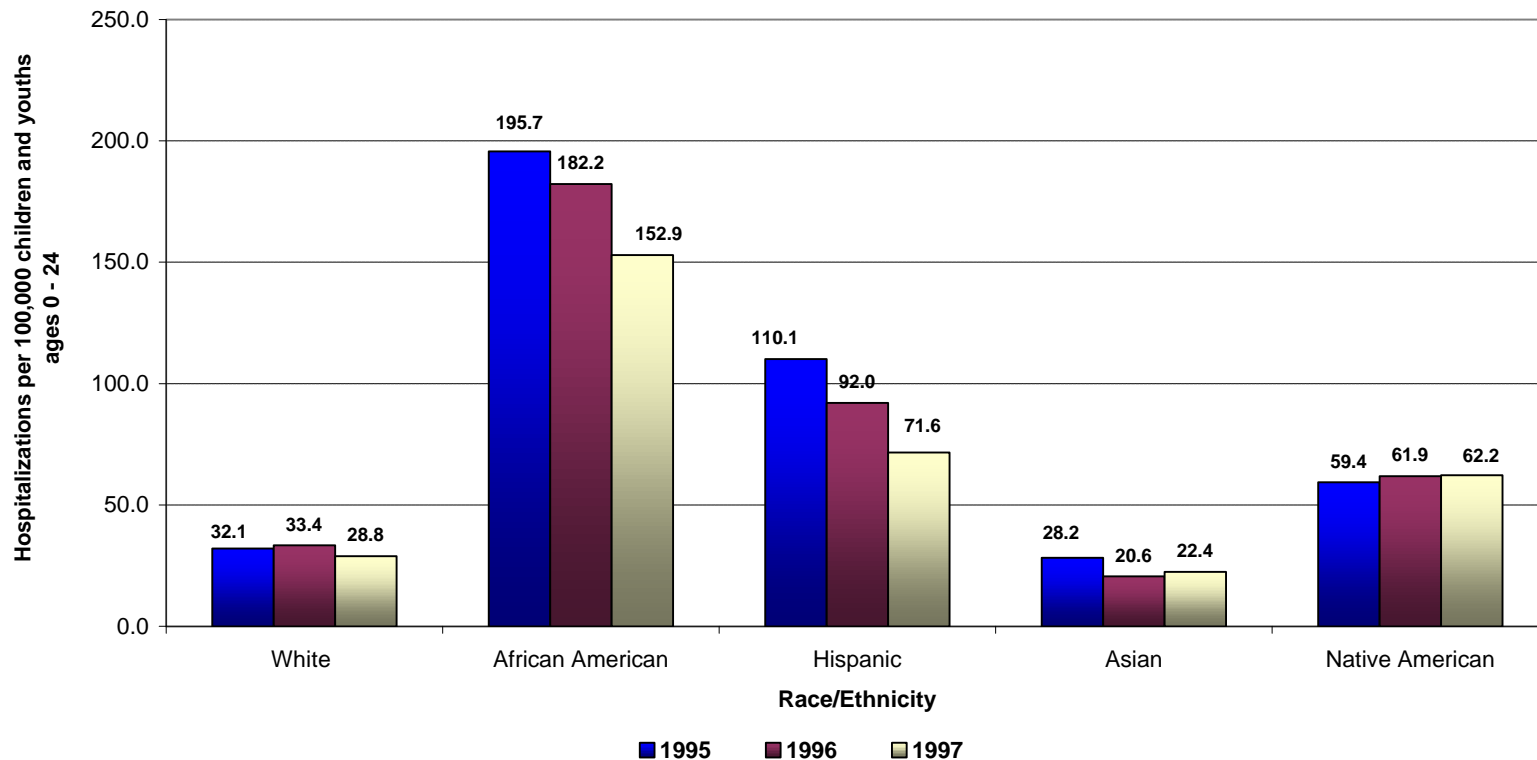
Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
 1997 hospital discharge data from the Office of Statewide Health Planning and Development  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Intentional Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Gender  
Los Angeles County, 1995 - 1997**



Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
 1997 hospital discharge data from the Office of Statewide Health Planning and Development  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

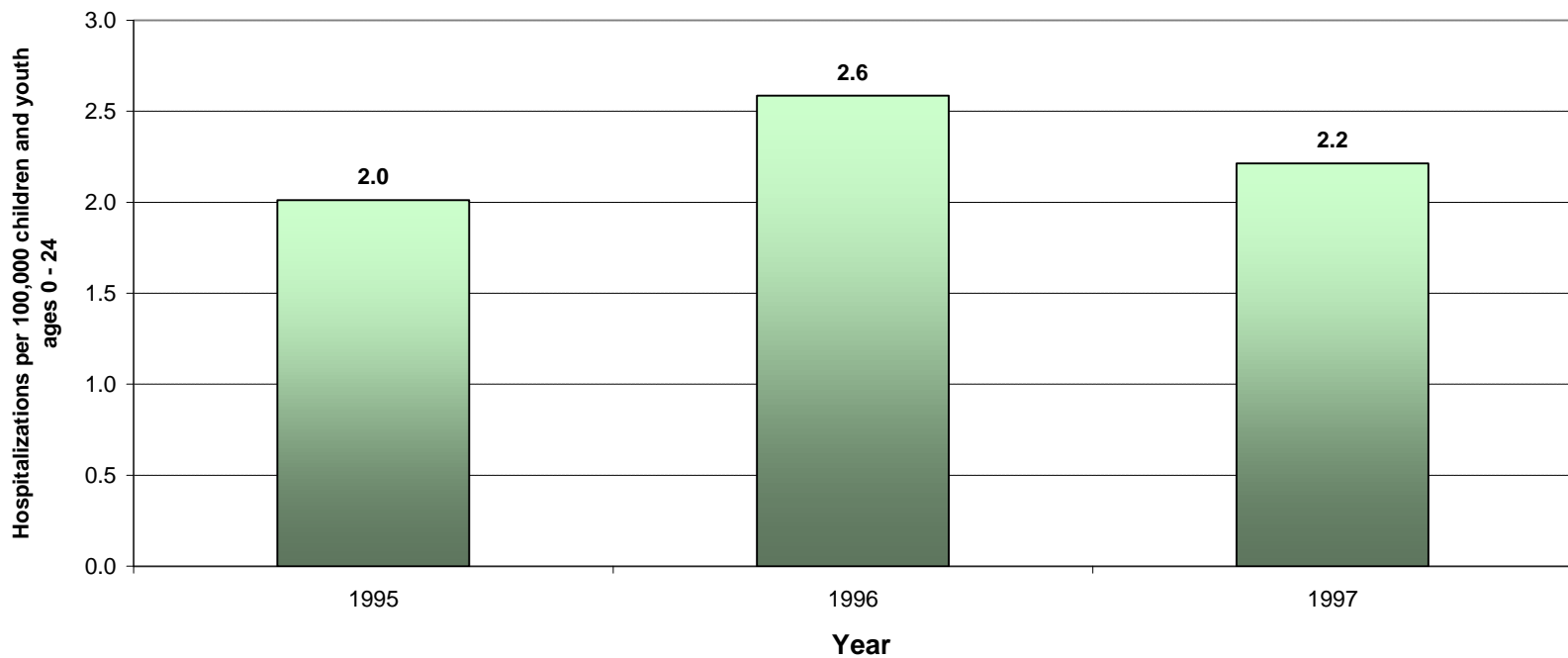
**Hospitalizations Due to Intentional Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Race/Ethnicity  
Los Angeles County, 1995 - 1997**



Note: Other or Unknown racial/ethnic groups are not included in this analysis.  
 Sources: 1995-1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services,  
 Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
 1997 hospital discharge data from the Office of Statewide Health Planning and Development  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
 Counties with Age and Gender Detail, Sacramento, California, December, 1998

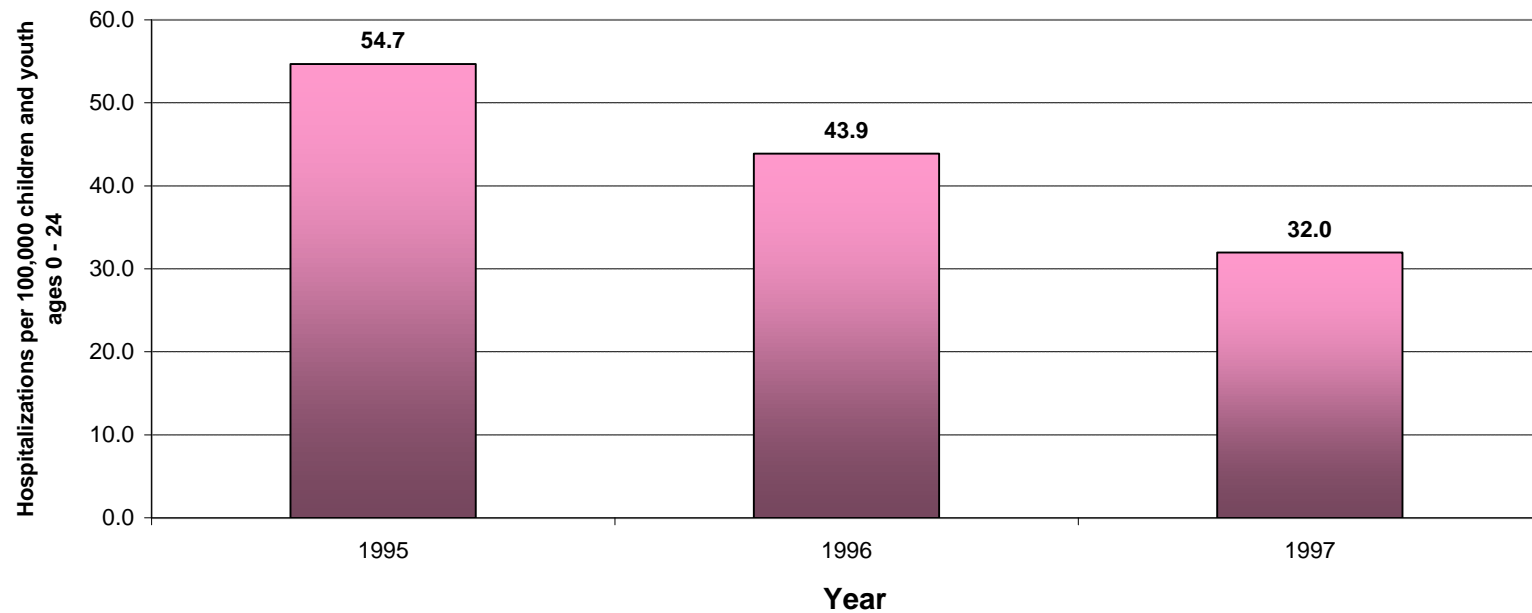


**Hospitalizations Due to Assault or Abuse  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 1995 - 1997**



Note: A hospitalization is considered if the principal external injury code is E961 to E964, or E967.0-967.9.  
Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services,  
Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
1997 hospital discharge data from the Office of Statewide Health Planning and Development  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Intentional Firearm Injuries  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 1995 - 1997**



Note: A hospitalization is considered if the principal external injury code is E965.0 to E965.4.  
Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services,  
Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
1997 hospital discharge data from the Office of Statewide Health Planning and Development  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
Counties with Age and Gender Detail, Sacramento, California, December, 1998

**INDICATOR:** Hospitalizations among children and youth due to self-inflicted injuries

**DEFINITION:** The rate per 100,000 children and youth (ages 0 through 24) of hospitalizations due to self-inflicted injuries (E950.0-959.0)

**NUMERATOR:** The number of hospitalizations to children (ages 0 through 24) due to self-inflicted injuries (E950.0-959.0), by place of residence

**DENOMINATOR:** The total population ages 0 through 24, by place of residence

**HEALTHY PEOPLE 2000 OBJECTIVE:**

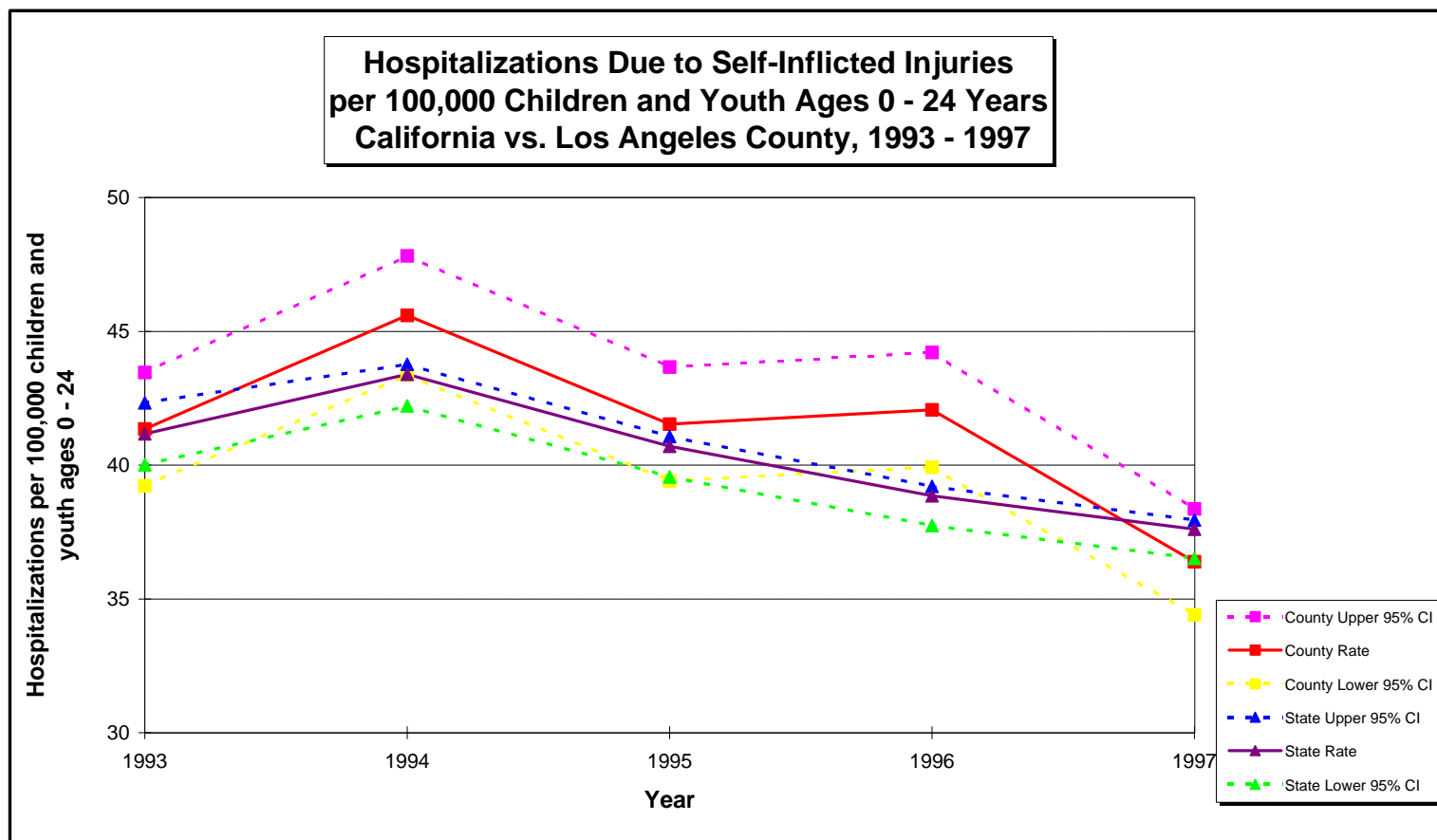
Reduce by 15% the incidence of injurious suicide attempts among adolescents aged 14-17 (objective 7.8)

**Hospitalizations due to self-inflicted injuries among children and youth (0-24 years)**

	California				County				DENOMINATOR: Total population ages 0 through 24		
			95% Confidence Interval				95%Confidence Interval				
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper	Year	State	County
1993	4,869	41.2	40.0	42.3	1,466	41.3	39.2	43.5	1993	11,827,912	3,545,537
1994	5,156	43.4	42.2	43.8	1,617	45.6	43.4	47.8	1994	11,882,205	3,546,404
1995	4,851	40.7	39.6	41.1	1,466	41.5	39.4	43.7	1995	11,916,553	3,529,488
1996	4,652	38.9	37.7	39.2	1,480	42.1	39.9	44.2	1996	11,971,762	3,518,026
1997	4,591	37.6	36.5	38.0	1,299	36.4	34.4	38.4	1997	12,207,730	3,569,947

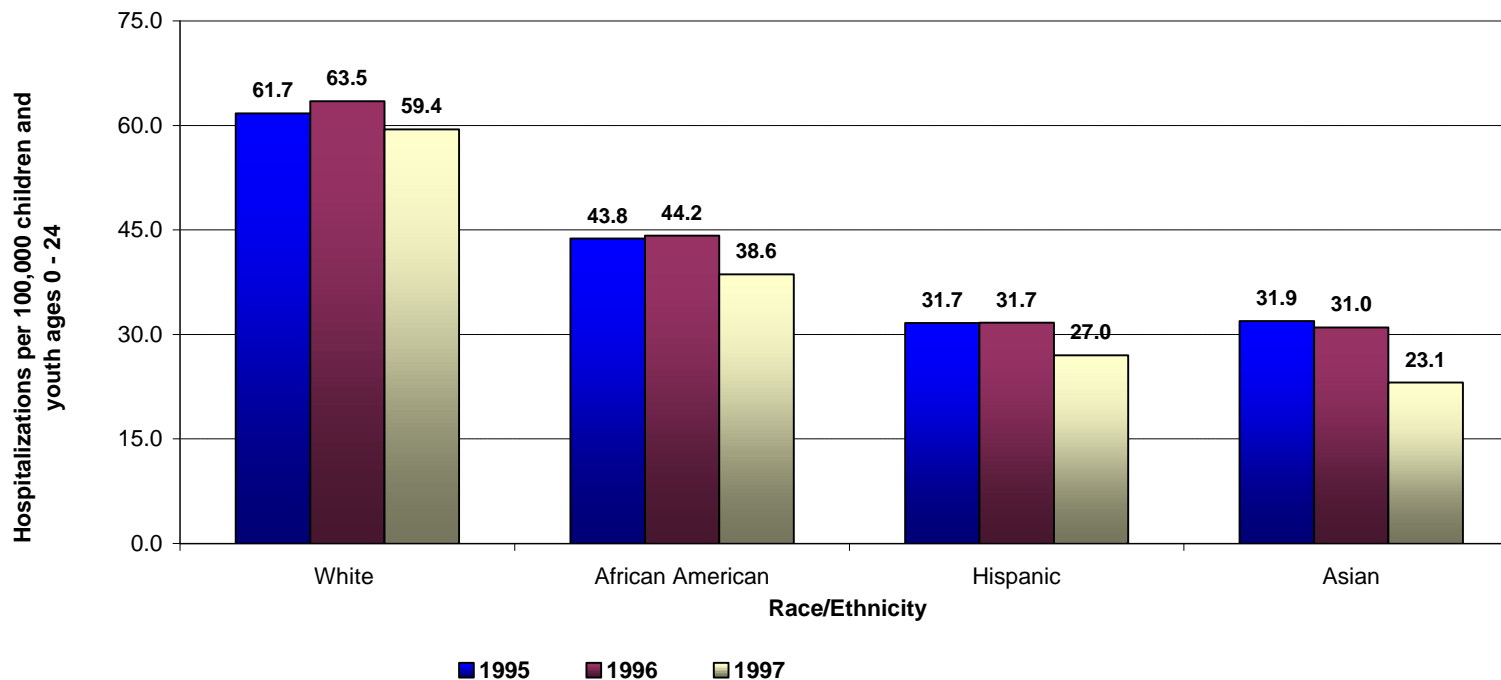
**Sources:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch

Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998



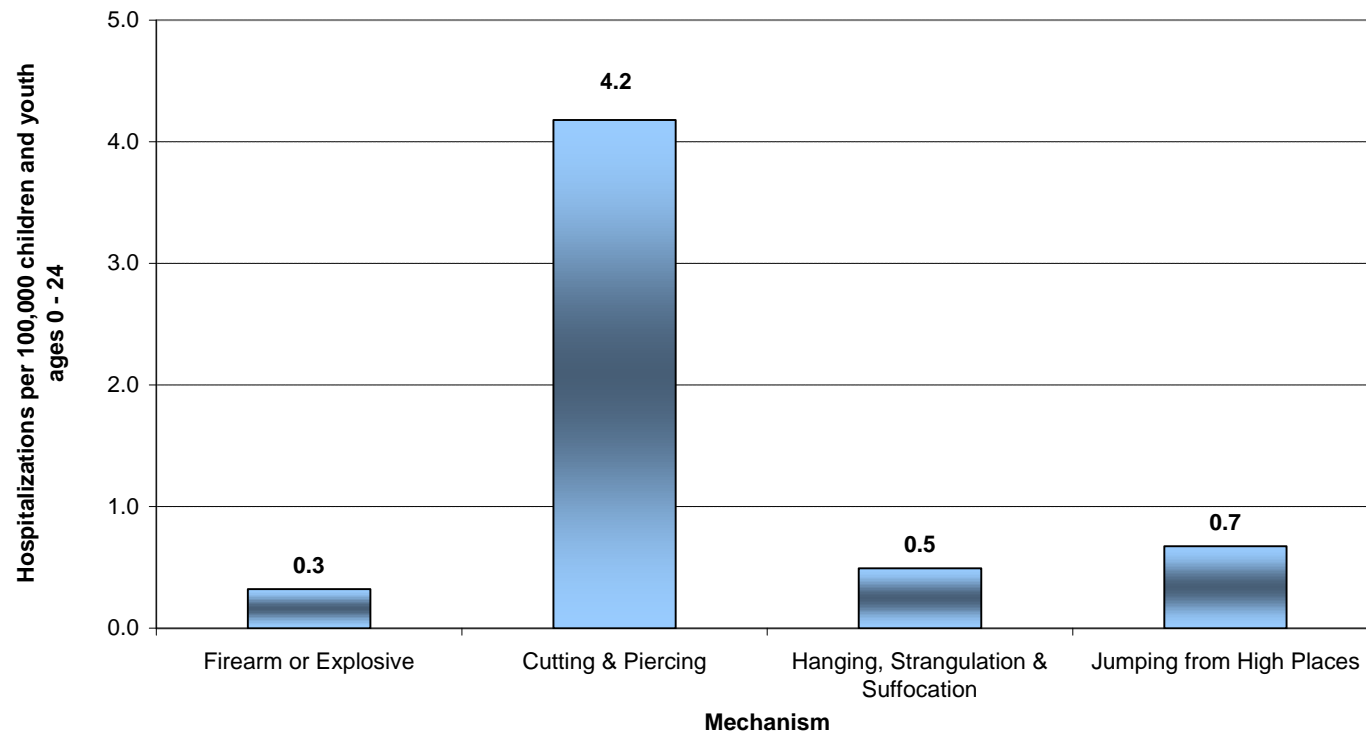
**Sources:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Self-Inflicted Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Race/Ethnicity  
Los Angeles County, 1995 - 1997**



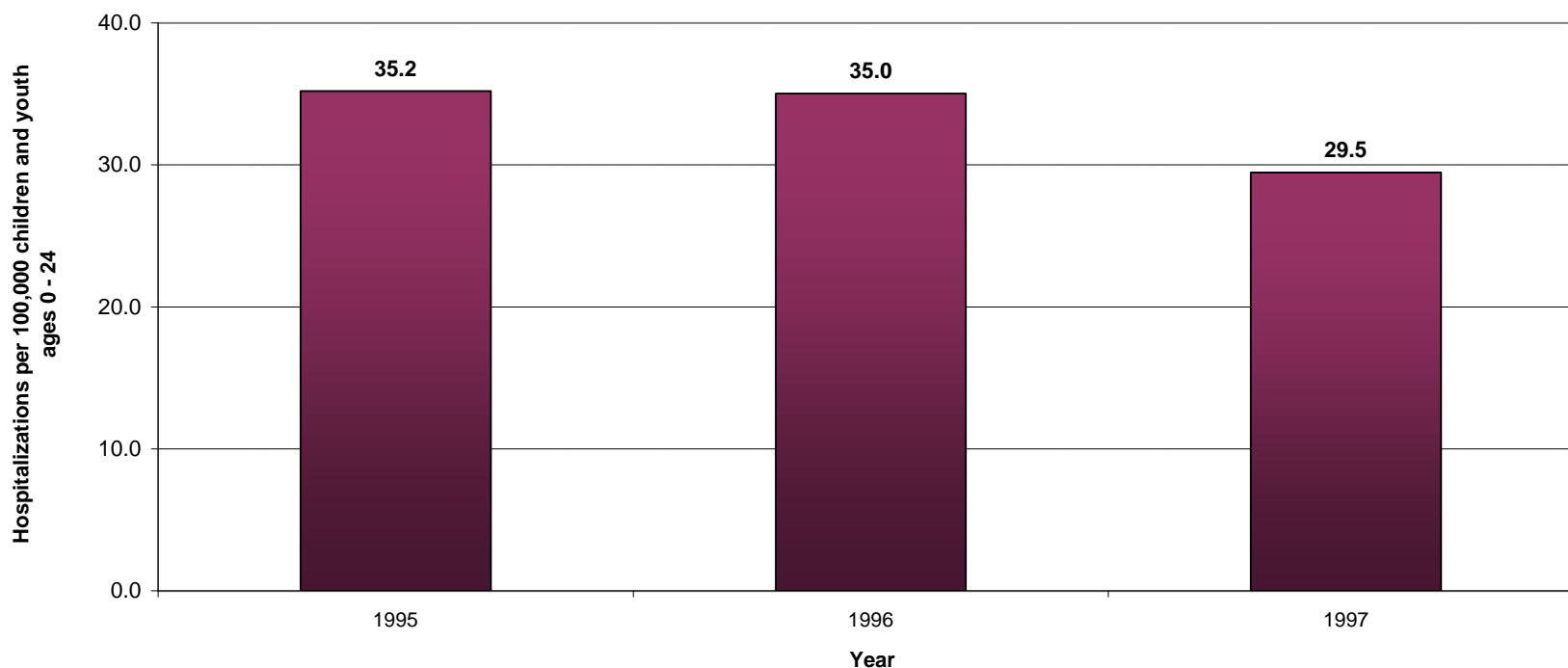
Note: Native American, other or unknown racial/ethnic groups are not included in this analysis.  
 Sources: 1995-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services,  
 Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
 1997 hospital discharge data from the Office of Statewide Health Planning and Development.  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
 Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Self-Inflicted Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Selected Mechanisms  
Los Angeles County, 3-Year Average, 1995 - 1997**



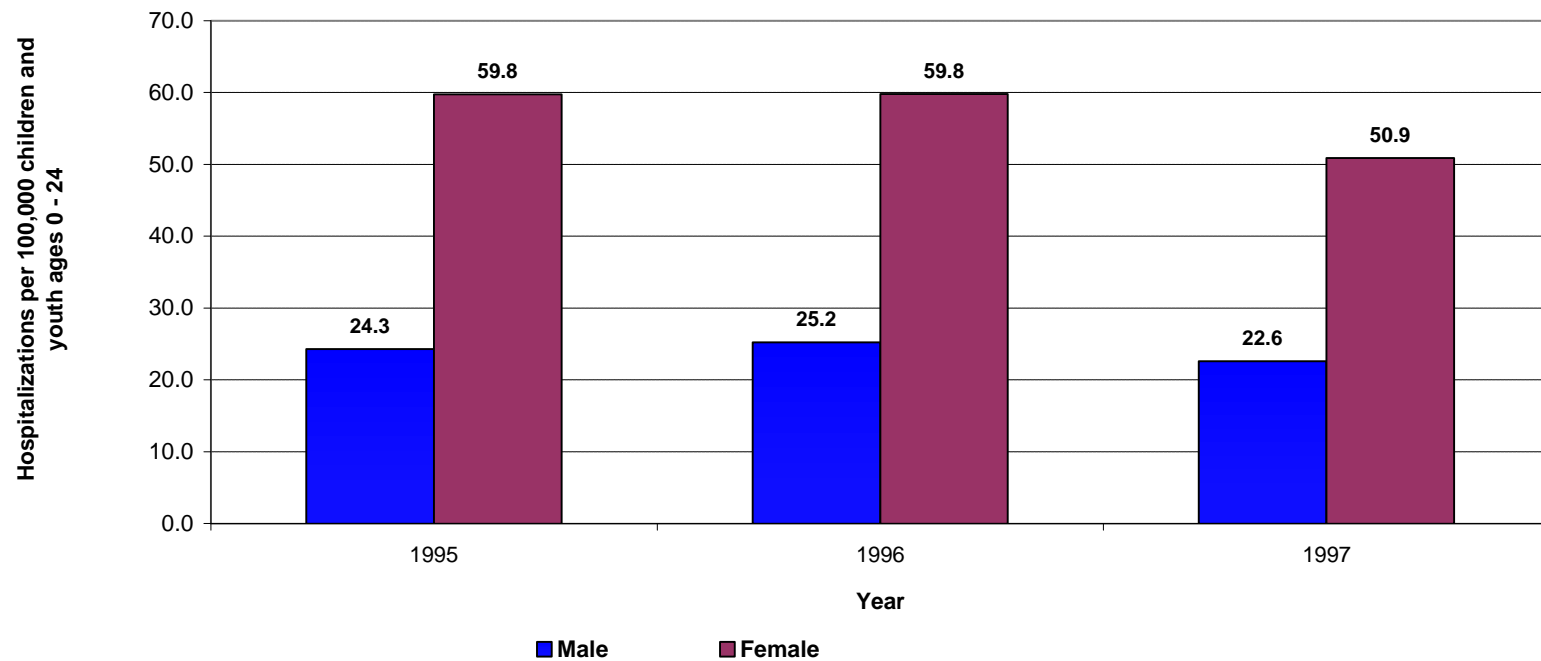
Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
1997 hospital discharge data from the Office of Statewide Health Planning and Development.  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Self-Inflicted Poisoning  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 1995 - 1997**



Note: A hospitalization is considered if the principal external injury code is E950 to E952.  
 Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services,  
 Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
 1997 hospital discharge data from the Office of Statewide Health Planning and Development.  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
 Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Hospitalizations Due to Self-Inflicted Injuries  
per 100,000 Children and Youth Ages 0 - 24 By Gender  
Los Angeles County, 1995 - 1997**



Sources: 1995 -1996 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch  
 1997 hospital discharge data from the Office of Statewide Health Planning and Development.  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998



# **Deaths Due to Injuries Among Children and Youth**

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Deaths due to unintentional injuries among children and youth

**DEFINITION:** The three year average rate of deaths due to unintentional injuries (E-codes 800.0-949.9) per 100,000 children and youth (ages 0 through 24 years)

**NUMERATOR:** The number of deaths due to unintentional injuries among children and youth (ages 0 through 24 years), by place of residence (three year average)

**DENOMINATOR:** The total population (ages 0 through 24 years), by place of residence for the middle year of the three year time period of interest

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce deaths caused by unintentional injuries to no more than 29.3 per 100,000 people (Objective 9.1)

California MCH Five Year Objective: Reduce deaths among children and youth through age 24 caused by unintentional injuries by at least 15 percent.

**RISK FACTORS:** Low income; race/ethnicity (African American, American Indian, Alaska Native); gender (male); inadequate parental supervision/environmental precautions taken; parental/personal alcohol or substance abuse; access to weapons/inadequate firearm regulation/enforcement; lack of health care provider counseling/focus; lack of knowledge about injury protection devices/countermeasures/regulations; lack of consistent legislation/enforcement/ use of protective devices; lack of use of sports/recreation protective gear; mental health/developmental disability

### Deaths due to unintentional injuries among children and youth ( ages 0 through 24 years)

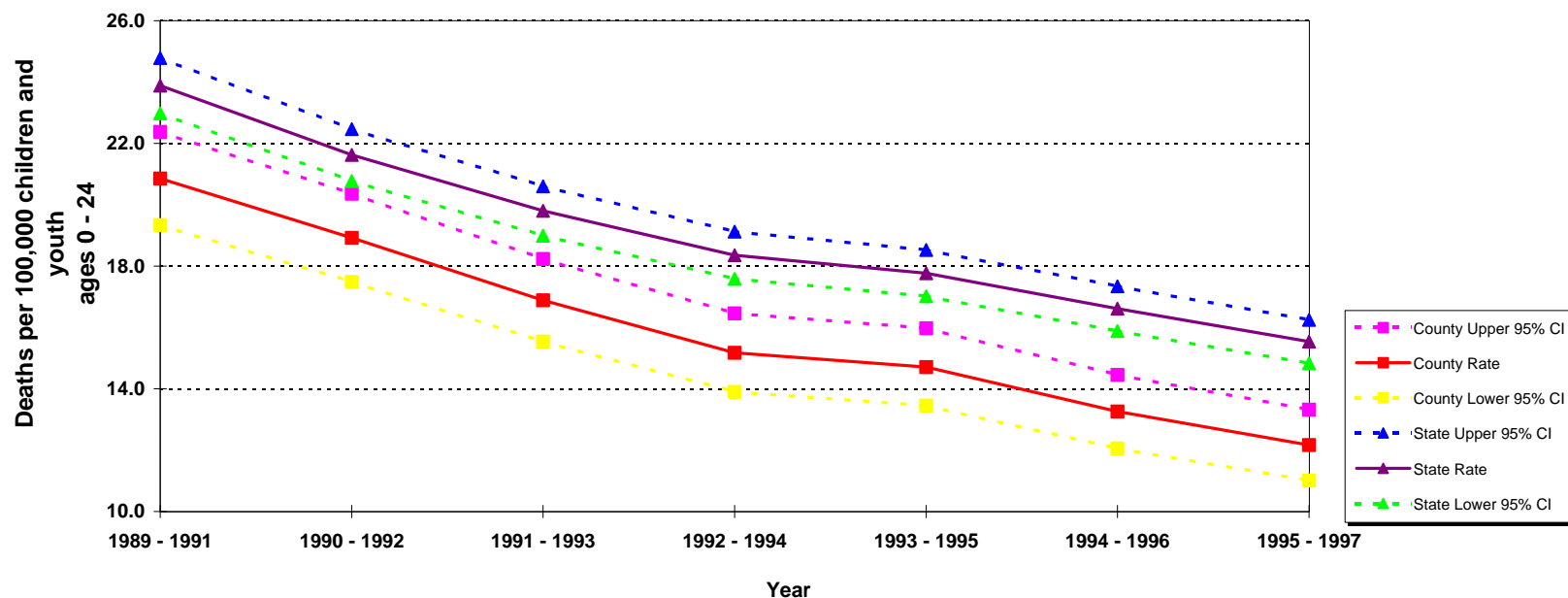
	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	2,709	23.9	23.0	24.8	724	20.9	19.3	22.4
1990 - 1992	2,493	21.6	20.8	22.5	664	18.9	17.5	20.4
1991 - 1993	2,325	19.8	19.0	20.6	600	16.9	15.5	18.2
1992 - 1994	2,171	18.4	17.6	19.1	538	15.2	13.9	16.5
1993 - 1995	2,112	17.8	17.0	18.5	522	14.7	13.4	16.0
1994 - 1996	1,980	16.6	15.9	17.3	468	13.3	12.1	14.5
1995 - 1997	1,860	15.5	14.8	16.2	428	12.2	11.0	13.3

**Sources:** 1989-1997 death records from the California Department of Health Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

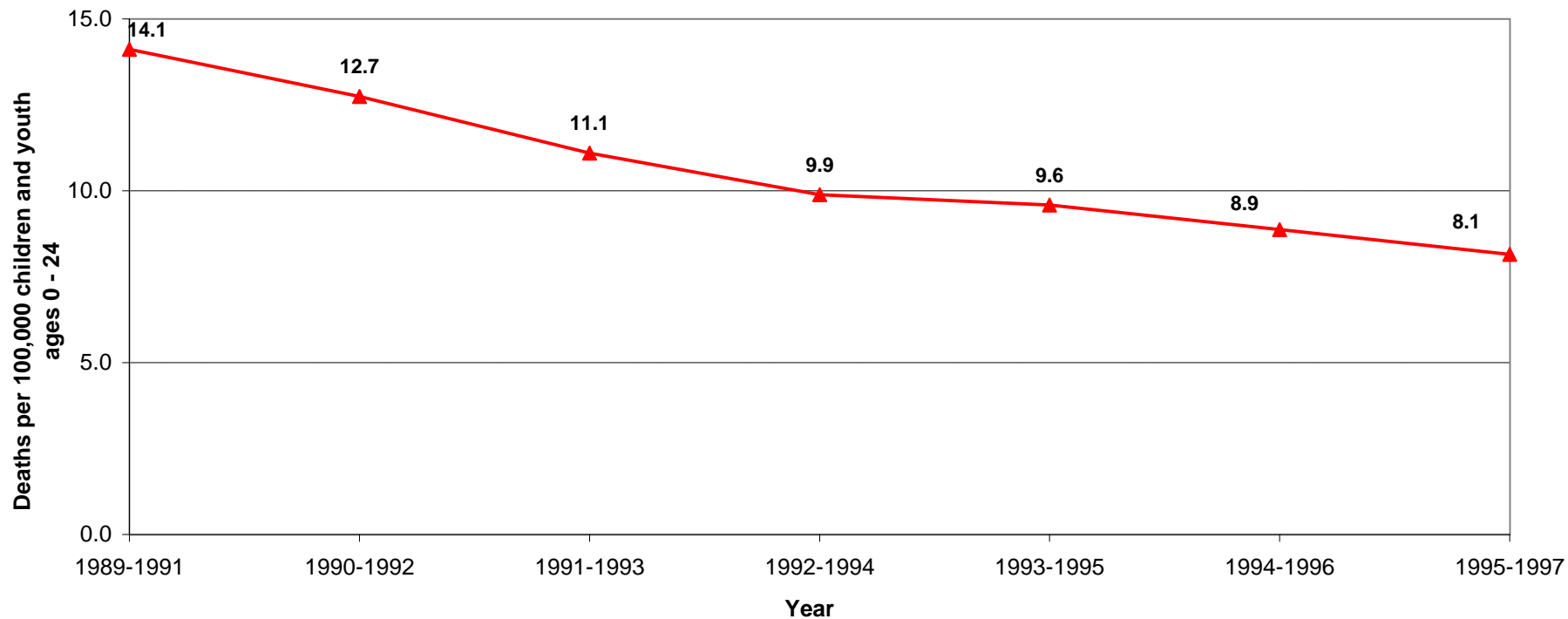
DENOMINATOR: Total population ages 0 through 24			NUMERATOR: Deaths among children and youth (0-24) caused by unintentional injuries	
Year	California	LA County	California	LA County
1989	11,190,077	3,476,036	2,866	720
1990	11,343,158	3,472,855	2,730	761
1991	11,529,744	3,507,456	2,531	692
1992	11,743,733	3,552,887	2,218	538
1993	11,827,912	3,544,537	2,227	570
1994	11,882,205	3,546,404	2,067	506
1995	11,916,553	3,529,488	2,041	489
1996	11,971,762	3,518,026	1,831	409
1997	12,207,730	3,569,947	1,709	386

**Deaths Due to Unintentional Injuries  
per 100,000 Among Ages 0 - 24 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



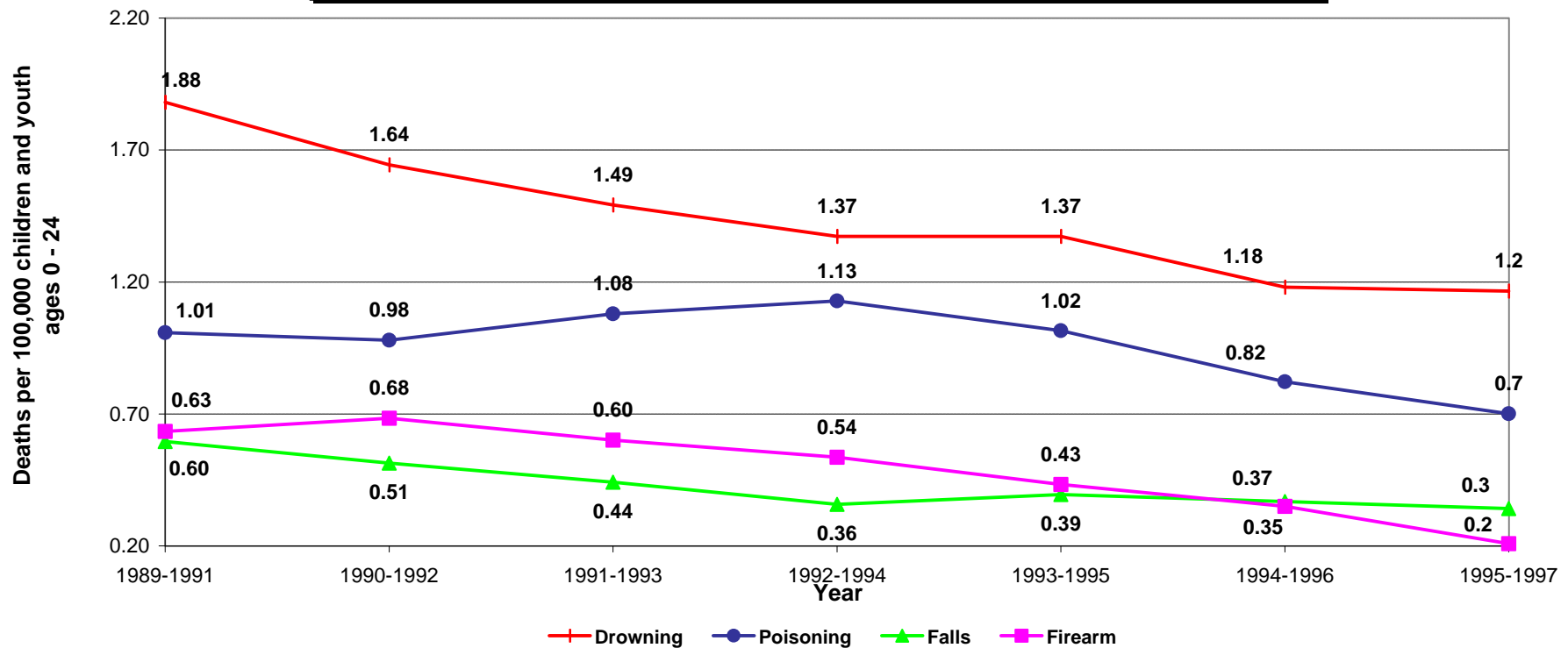
**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

**Deaths Due to Motor Vehicle Crashes  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 3-Year Average, 1989 - 1997**

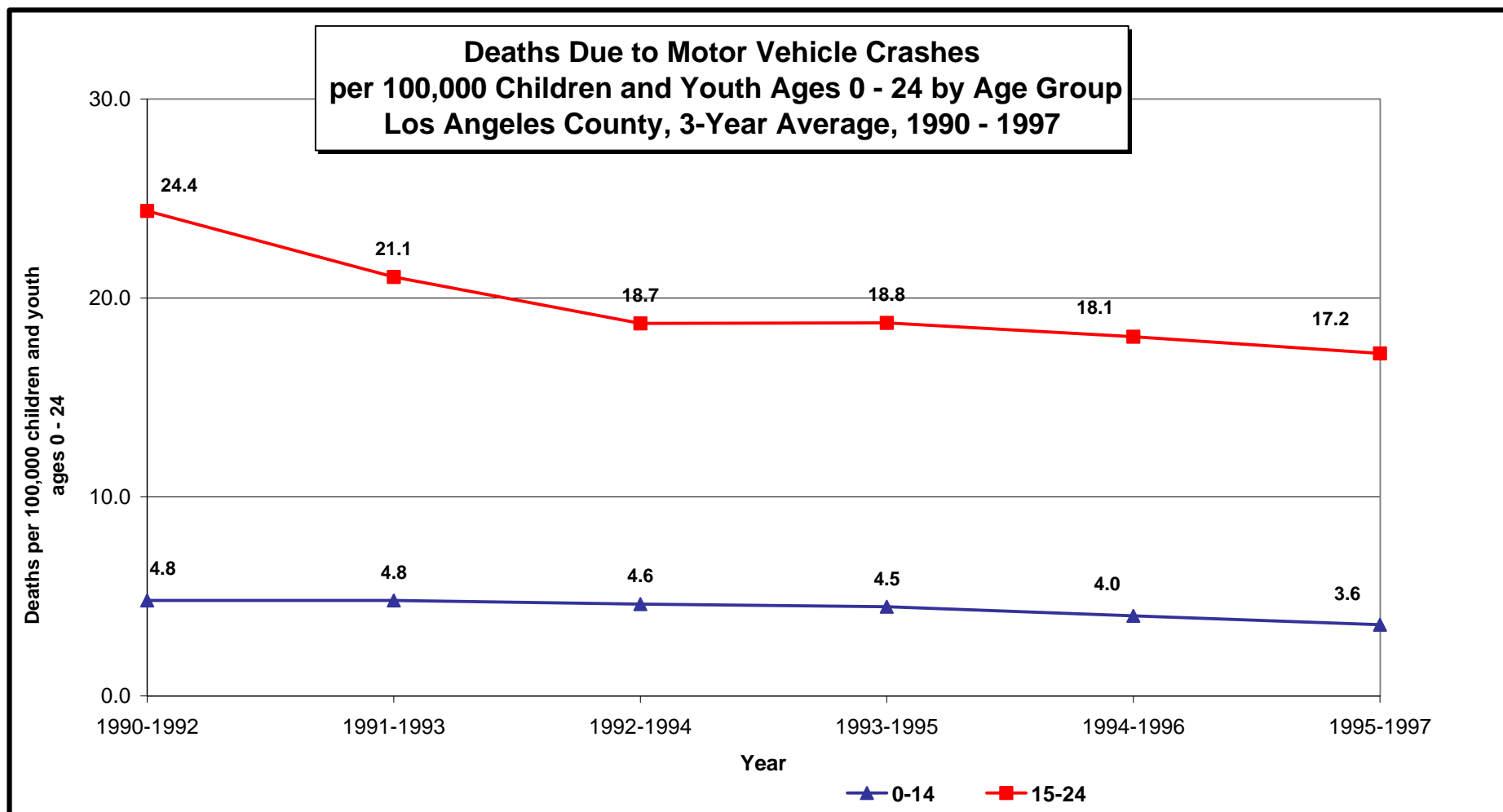


Sources: 1989-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Unintentional Injuries  
per 100,000 Children and Youth Ages 0 - 24 By Selected Mechanisms  
Los Angeles County, 3-Year Average, 1989 - 1997**

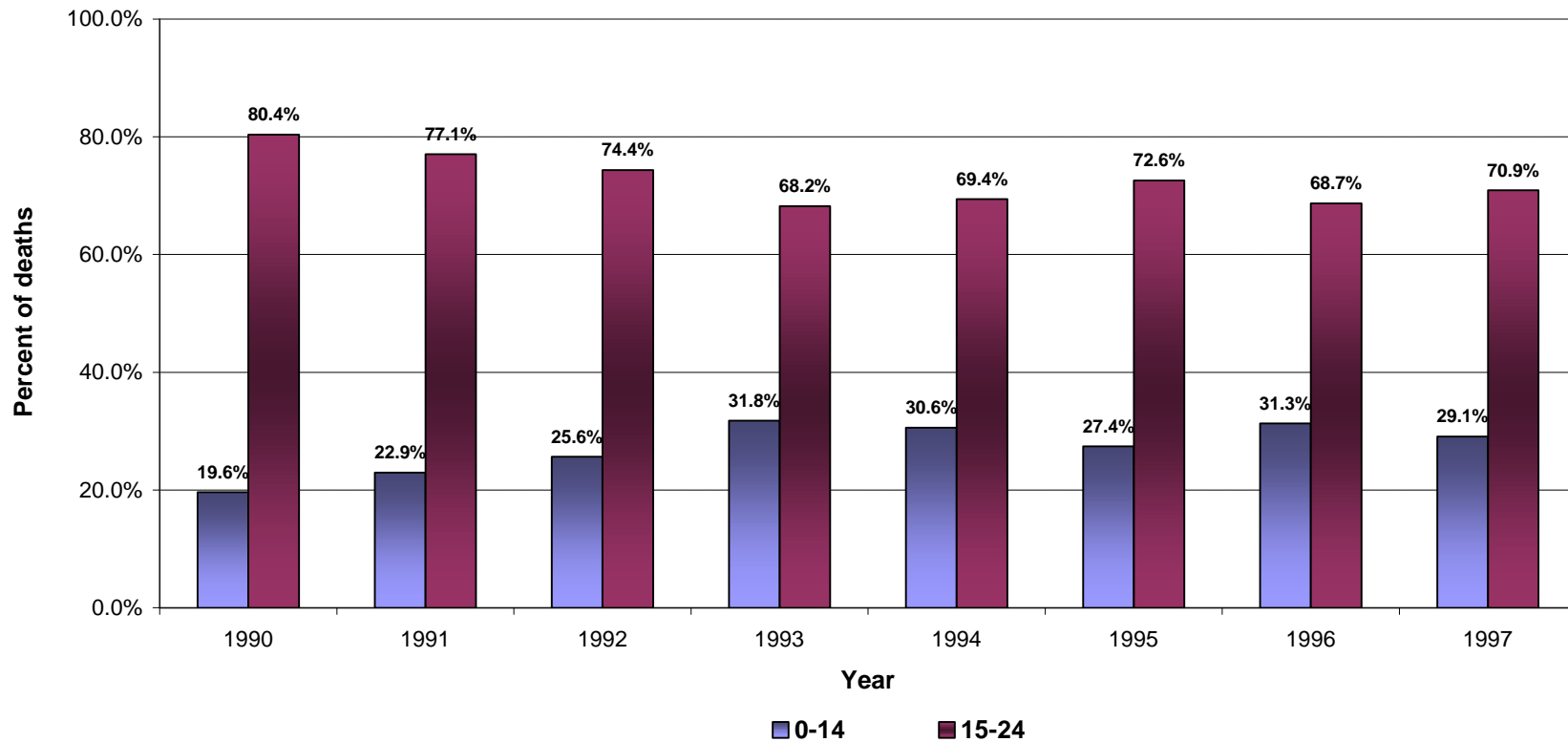


Sources: 1989-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998



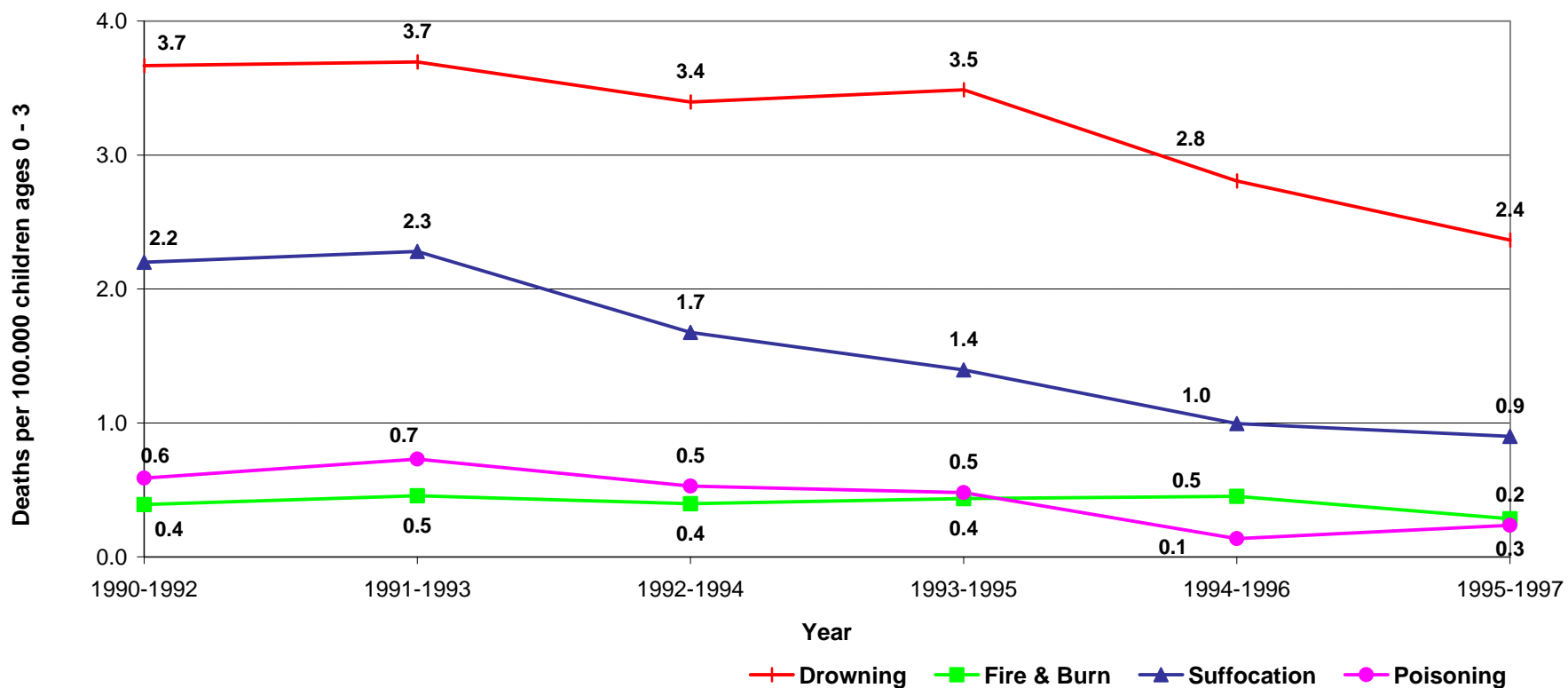
Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Percent of Deaths Due to Motor Vehicle Crashes  
Among Children and Youth Ages 0 - 24 by Age Group  
Los Angeles County, 1990 - 1997**



Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Unintentional Injuries  
per 100,000 Children Ages 0 - 3 by Selected Mechanisms  
Los Angeles County, 3-Year Average, 1990 - 1997**



Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998



## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Deaths due to assaultive injuries (homicide) among children and youth

**DEFINITION:** The three year average rate of deaths due to homicide (E-Codes 960.0-969.9) per 100,000 children and youth (ages 0 through 24 years)

**NUMERATOR:** The number of deaths due to homicide among children and youth (ages 0 through 24), by place of residence (three year average)

**DENOMINATOR:** The total population ages 0 through 24, by place of residence, for the middle year of the three year time period of interest

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce homicides to no more than 7.2 per 100,000 people (Objective 7.1)

Special population target:

Children aged 3 and younger (3.1 per 100,000; Objective 7.1a)

**RISK FACTORS:** Low income; gender (male); age (teens, young adults); race/ethnicity (African American, Hispanic); history of abuse (victims of spousal/intimates, or child abuse); substance use/abuse; drug trafficking activity; easy access to firearms

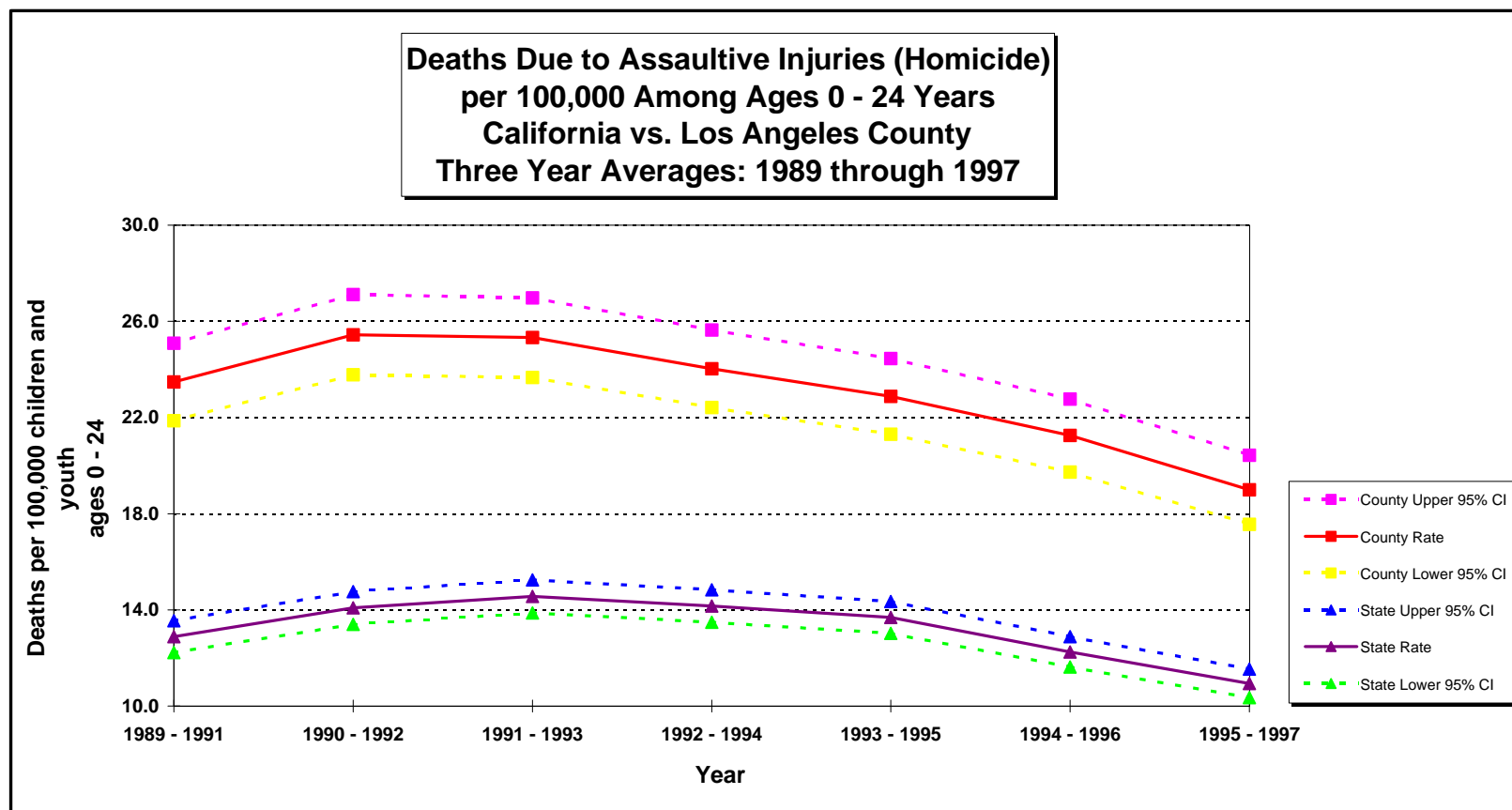
**Deaths due to homicide among children and youth (ages 0 through 24 years)**

	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	1,462	12.9	12.2	13.5	815	23.5	21.9	25.1
1990 - 1992	1,623	14.1	13.4	14.8	892	25.4	23.8	27.1
1991 - 1993	1,710	14.6	13.9	15.2	900	25.3	23.7	27.0
1992 - 1994	1,675	14.2	13.5	14.8	852	24.0	22.4	25.6
1993 - 1995	1,626	13.7	13.0	14.3	811	22.9	21.3	24.5
1994 - 1996	1,460	12.3	11.6	12.9	750	21.2	19.7	22.8
1995 - 1997	1,310	10.9	10.4	11.5	668	19.0	17.6	20.4

**Sources:** 1989-1997 death records from the California Department of Health Services, Center for Health Statistics

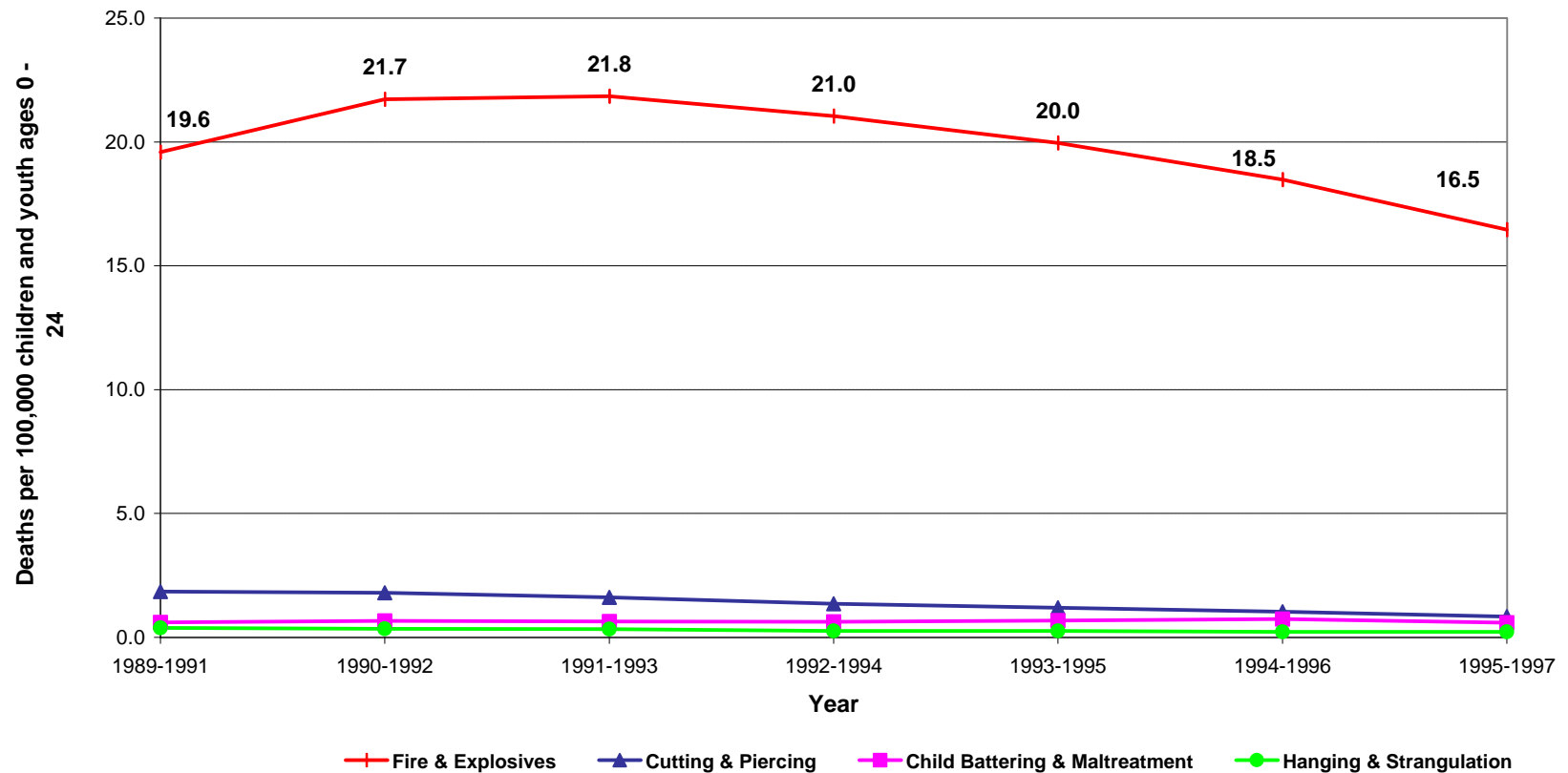
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

DENOMINATOR: Total population ages 0 through 24			NUMERATOR: Deaths among children and youth (0-24) caused by homicide	
Year	California	LA County	California	LA County
1989	11,190,077	3,476,036	1,215	693
1990	11,343,158	3,472,855	1,468	820
1991	11,529,744	3,507,456	1,702	933
1992	11,743,733	3,552,887	1,700	924
1993	11,827,912	3,544,537	1,727	842
1994	11,882,205	3,546,404	1,597	789
1995	11,916,553	3,529,488	1,553	803
1996	11,971,762	3,518,026	1,230	658
1997	12,207,730	3,569,947	1,147	544



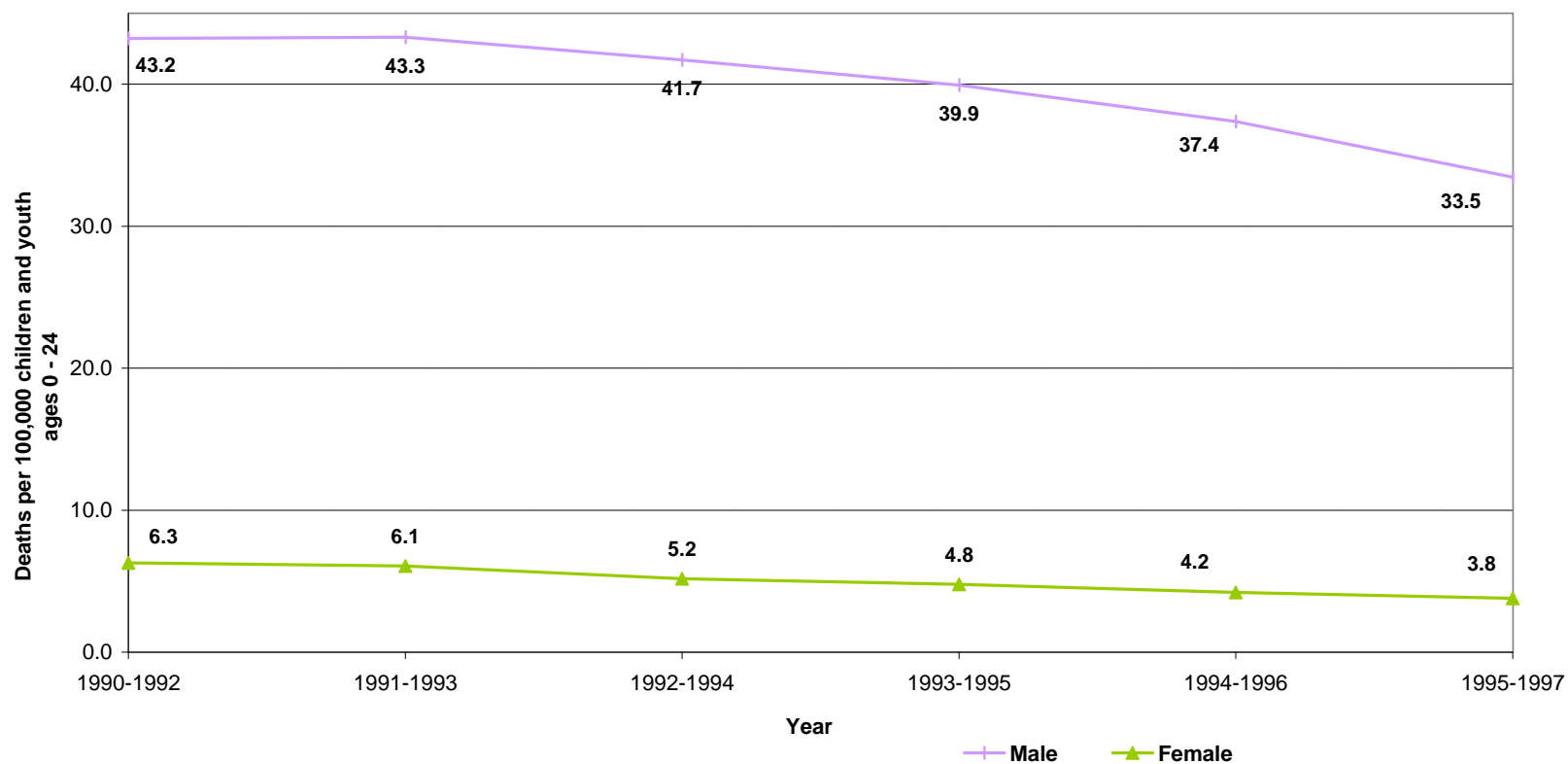
**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
 Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
 with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

**Deaths Due to Assaultive Injuries  
per 100,000 Children and Youth Ages 0 - 24 By Selected Mechanisms  
Los Angeles County, 3-Year Averages, 1989 - 1997**

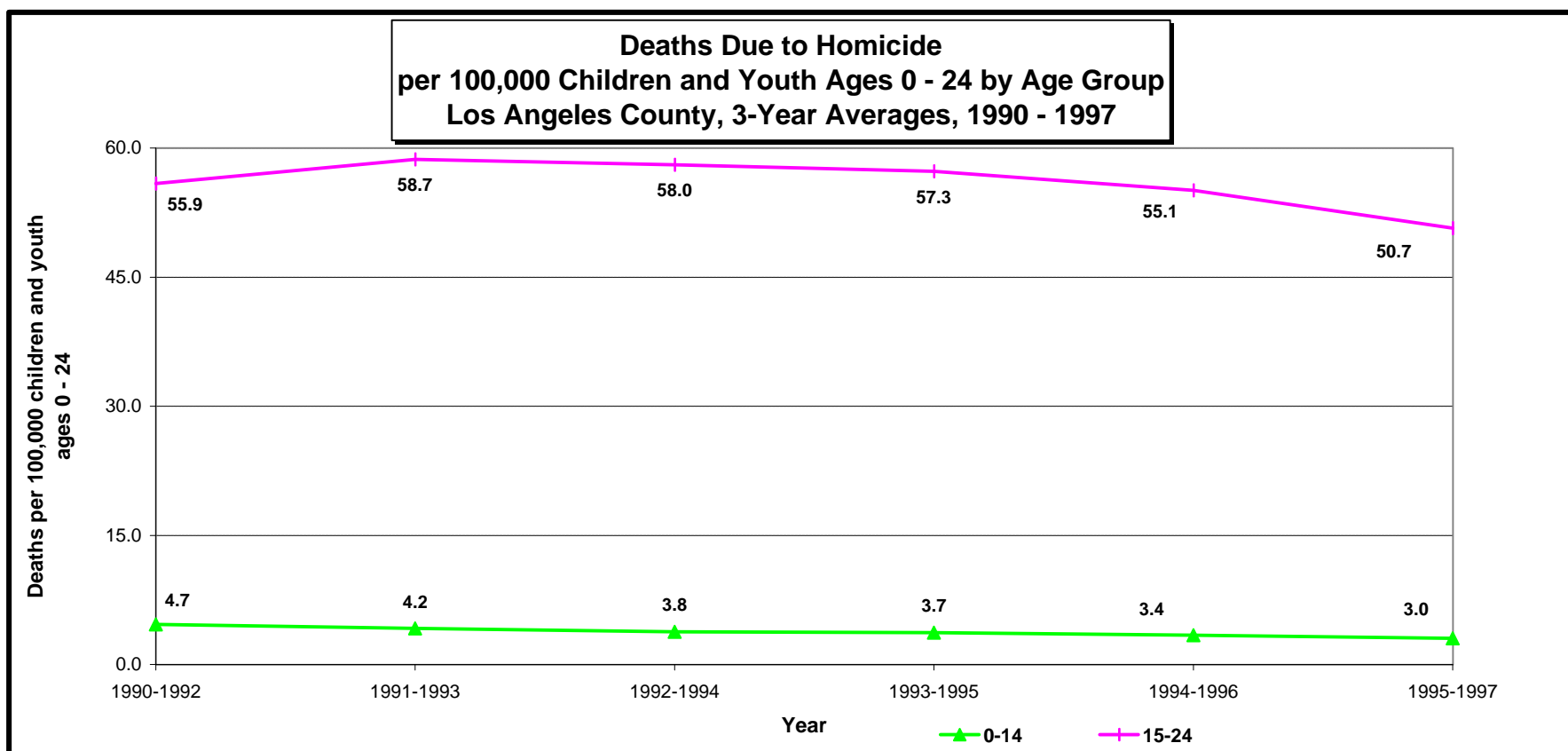


Sources: 1989-1997 death records from the California Department of Health Services, Center for Health Statistics  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
 for Counties with Age and Gender Detail, Sacramento, California, December, 1998

# **Deaths Due to Homicide per 100,000 Children and Youth Ages 0-24 by Gender Los Angeles County, 3-Year Averages, 1990 - 1997**

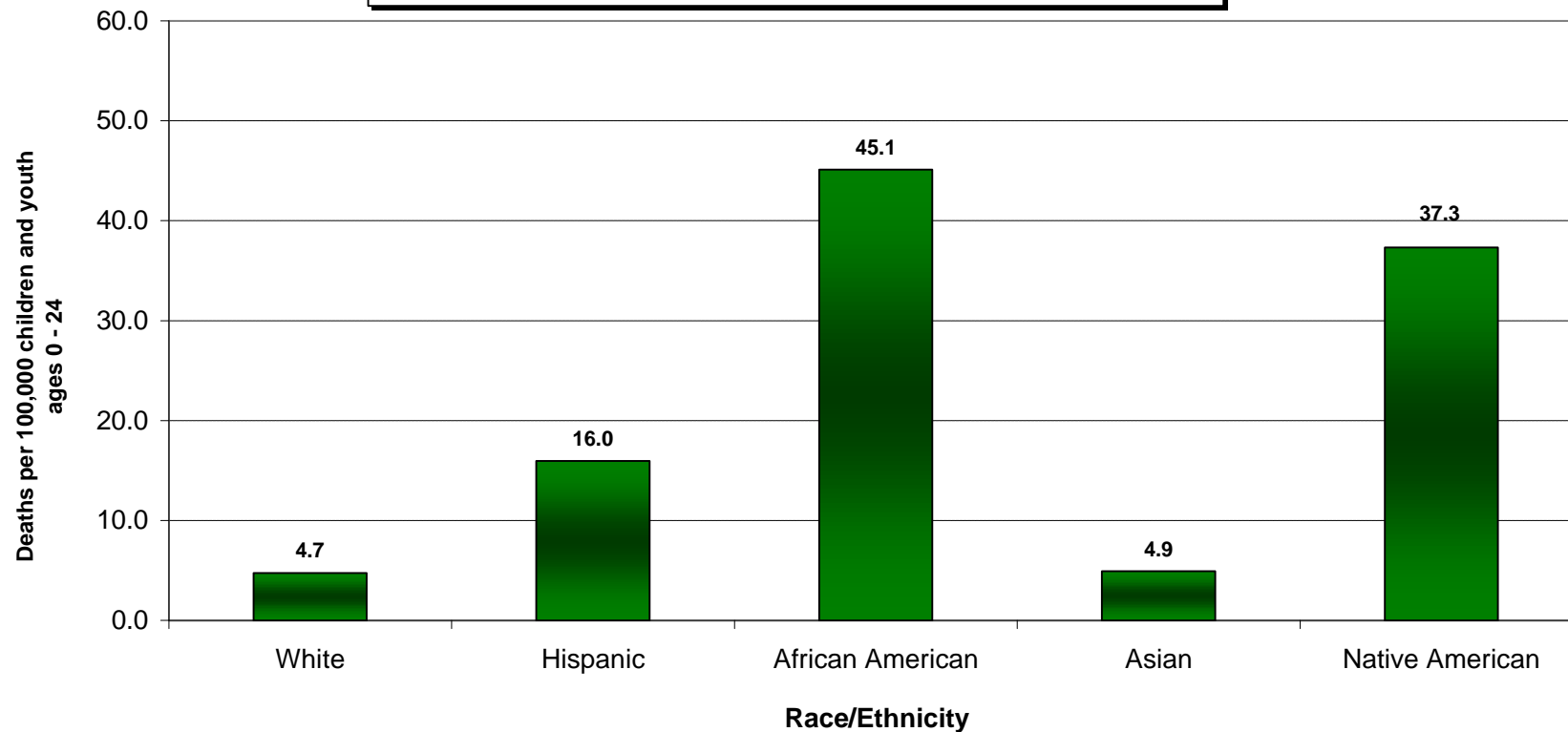


Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
 Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
 for Counties with Age and Gender Detail, Sacramento, California, December, 1998



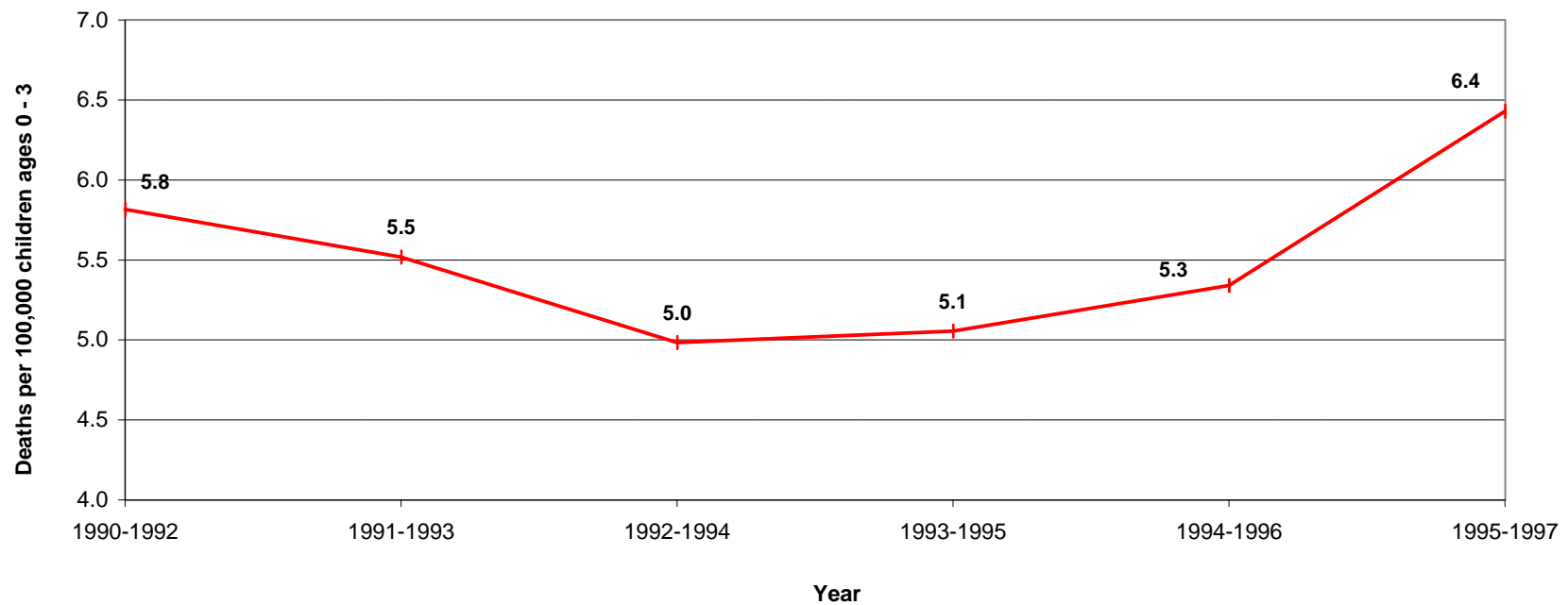
Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Homicide per 100,000 Children and Youth  
Ages 0 - 24 by Race/Ethnicity Los Angeles County, 1997**



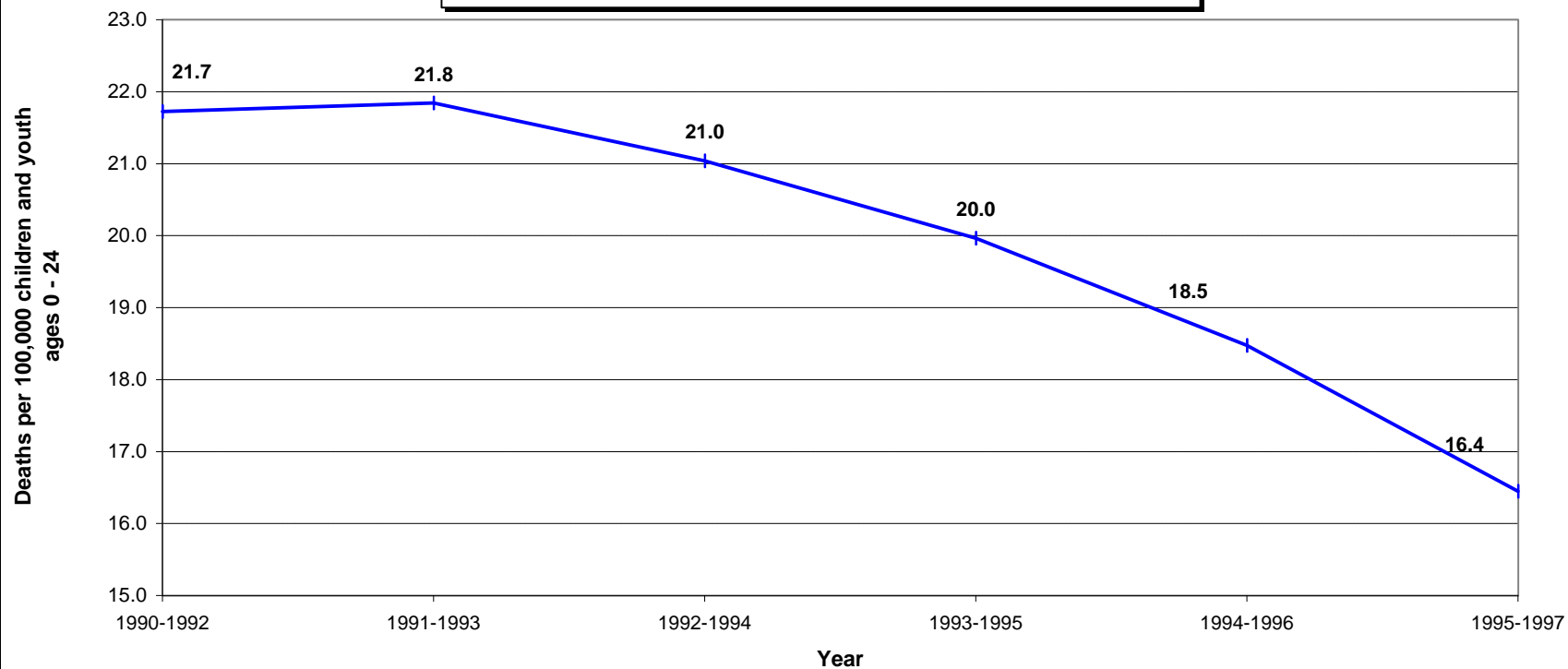
Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Homicide per 100,000 Children Ages 0 - 3  
Los Angeles County, 3-Year Average, 1990 - 1997**



Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Intentional Firearm Injuries  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 3-Year Averages, 1990 - 1997**



Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998



# **TITLE V INDICATOR TEMPLATES**

<b>INDICATOR:</b>	<b>Deaths due to suicide among children and youth</b>
<b>DEFINITION:</b>	The three year average rate of deaths due to suicide (E-Codes 950.0-959.9) per 100,000 children and youth (ages 0 through 24 years)
<b>NUMERATOR:</b>	The number of deaths due to suicide among children and youth (ages 0 through 24), by place of residence (three year average)
<b>DENOMINATOR:</b>	The total population ages 0 through 24, by place of residence, for the middle year of the three year time period of interest
<b>HEALTHY PEOPLE 2000 OBJECTIVE:</b>	Reduce suicides to no more than 10.5 per 100,000 people (Objective 7.2) Special population target: Youth aged 15 to 19 (8.2 per 100,000; Objective 7.2a)
<b>RISK FACTORS:</b>	Mental health disorders (depression, schizophrenia, anti-social personality disorder, panic disorder); substance use/abuse; gender (male); age (youth ages 15-19); race/ethnicity (White, American Indian); previous suicide attempt; inadequate mental health treatment; precipitous or stressful life events; family history of suicide or psychiatric disorders; exposure to suicidal behaviors; family violence; availability of firearms; low income; low socioeconomic status/unemployment.

## **Deaths due to suicide among children and youth 0 through age 24**

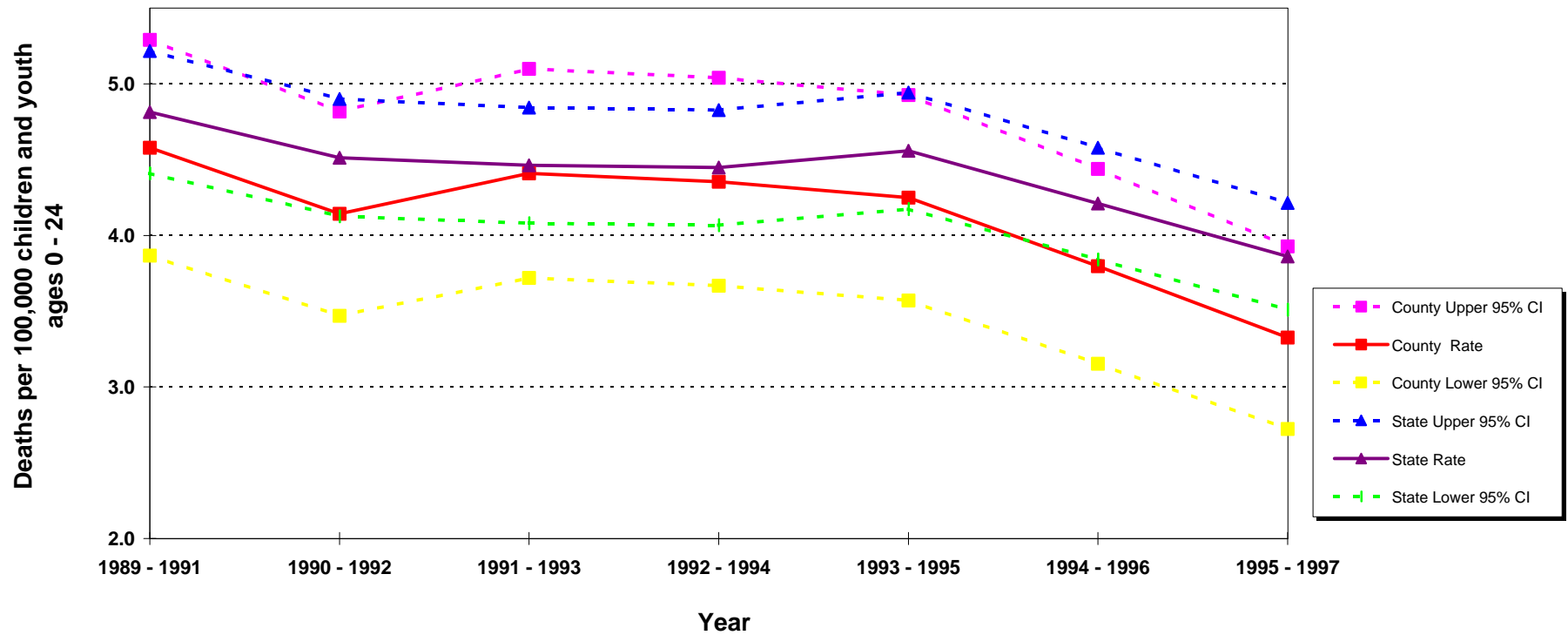
	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	546	4.8	4.4	5.2	159	4.6	3.9	5.3
1990 - 1992	520	4.5	4.1	4.9	145	4.1	3.5	4.8
1991 - 1993	524	4.5	4.1	4.8	157	4.4	3.7	5.1
1992 - 1994	526	4.4	4.1	4.8	154	4.4	3.7	5.0
1993 - 1995	542	4.6	4.2	4.9	151	4.2	3.6	4.9
1994 - 1996	502	4.2	3.8	4.6	134	3.8	3.2	4.4
1995 - 1997	462	3.9	3.5	4.2	117	3.3	2.7	3.9

**Sources:** 1989-1997 death records from the California Department of Health Services, Center for Health Statistics

Denominator data: Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

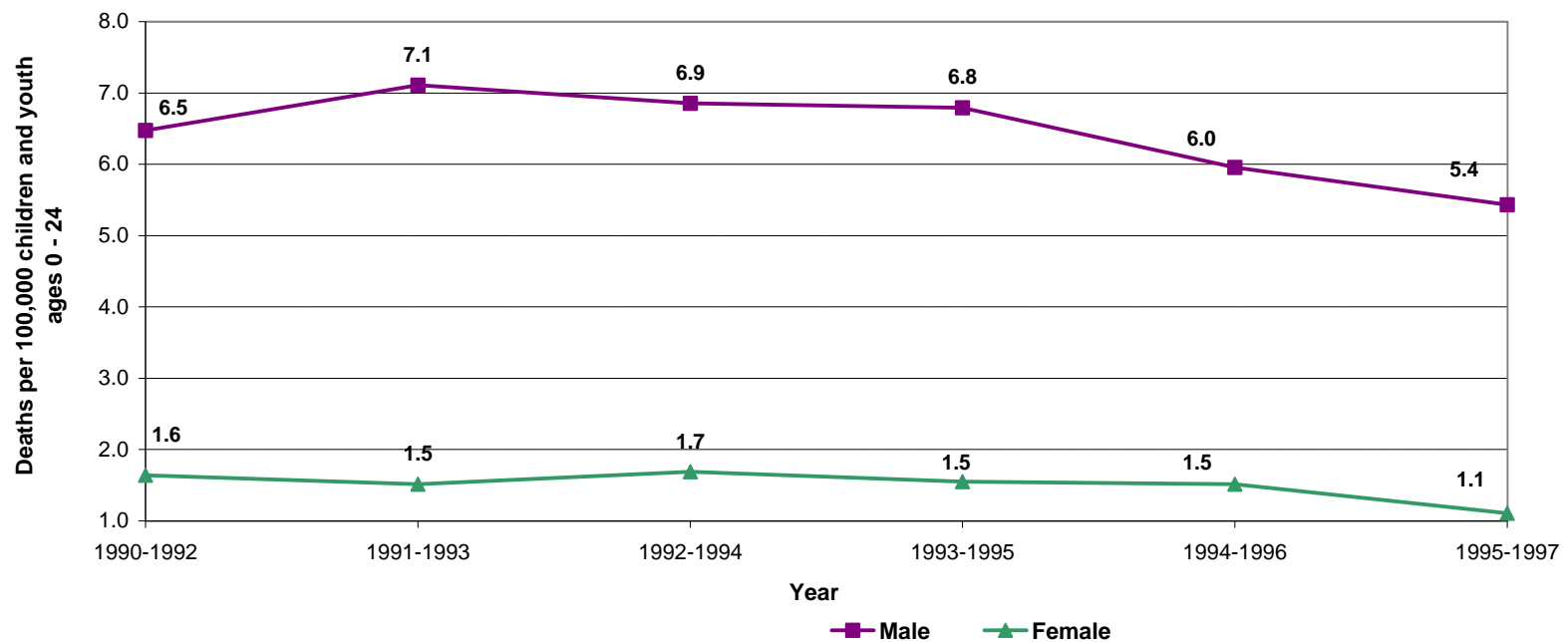
DENOMINATOR: Total population ages 0 through 24			NUMERATOR: Deaths among children and youth (0-24) caused by suicide	
Year	California	LA County	California	LA County
1989	11,190,077	3,476,036	567	176
1990	11,343,158	3,472,855	536	142
1991	11,529,744	3,507,456	535	159
1992	11,743,733	3,552,887	490	135
1993	11,827,912	3,544,537	547	176
1994	11,882,205	3,546,404	541	152
1995	11,916,553	3,529,488	537	124
1996	11,971,762	3,518,026	427	126
1997	12,207,730	3,569,947	423	101

**Deaths Due to Suicide  
per 100,000 Among Ages 0 - 24 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



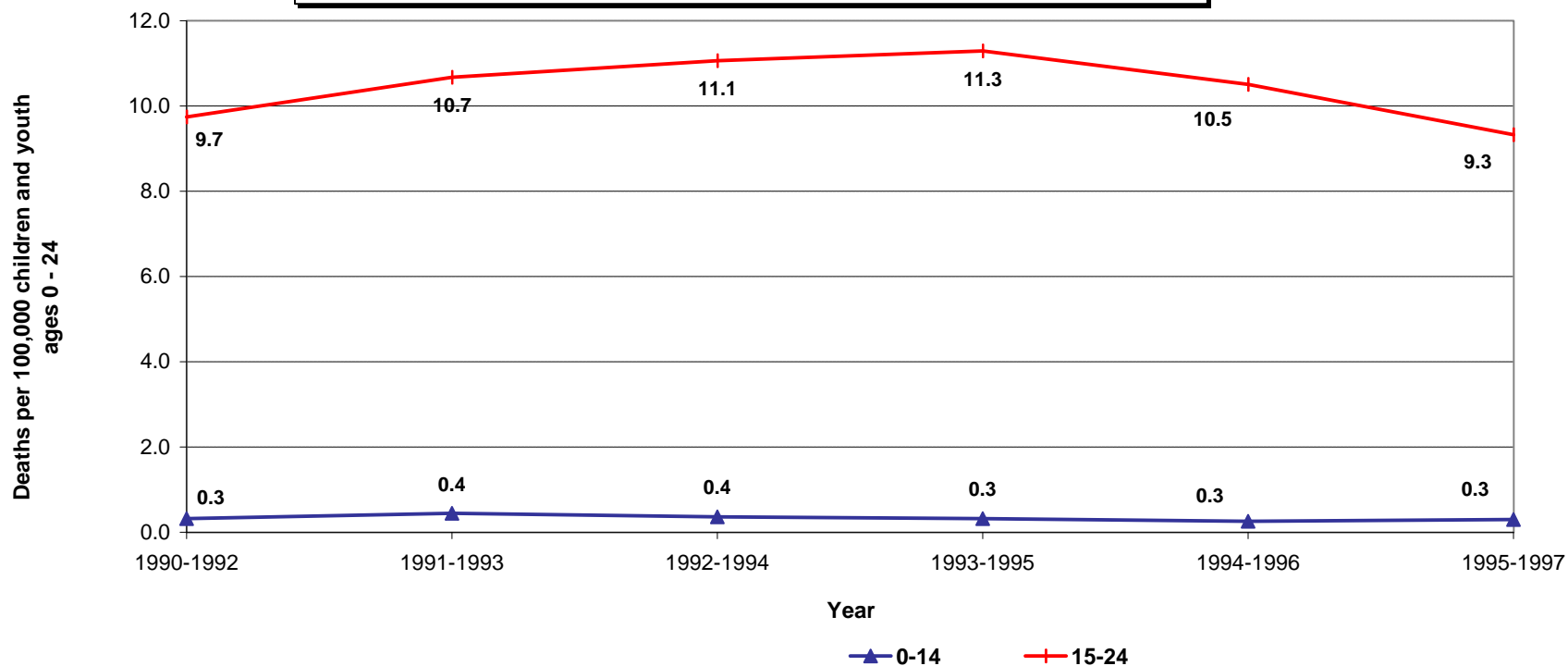
**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

**Deaths Due to Self-Inflicted Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Gender  
Los Angeles County, 3-Year Averages, 1990 - 1997**



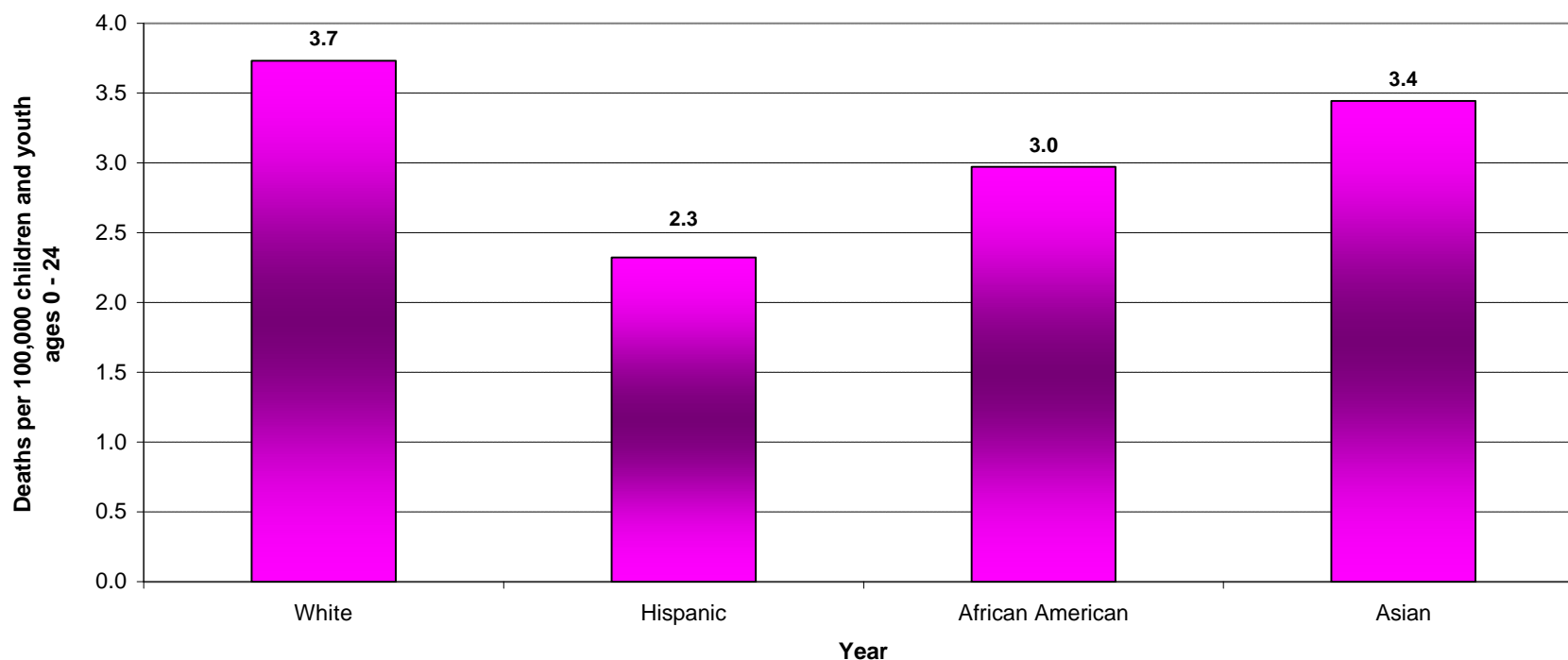
Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Self-Inflicted Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Age Group  
Los Angeles County, 3-Year Averages, 1990 - 1997**



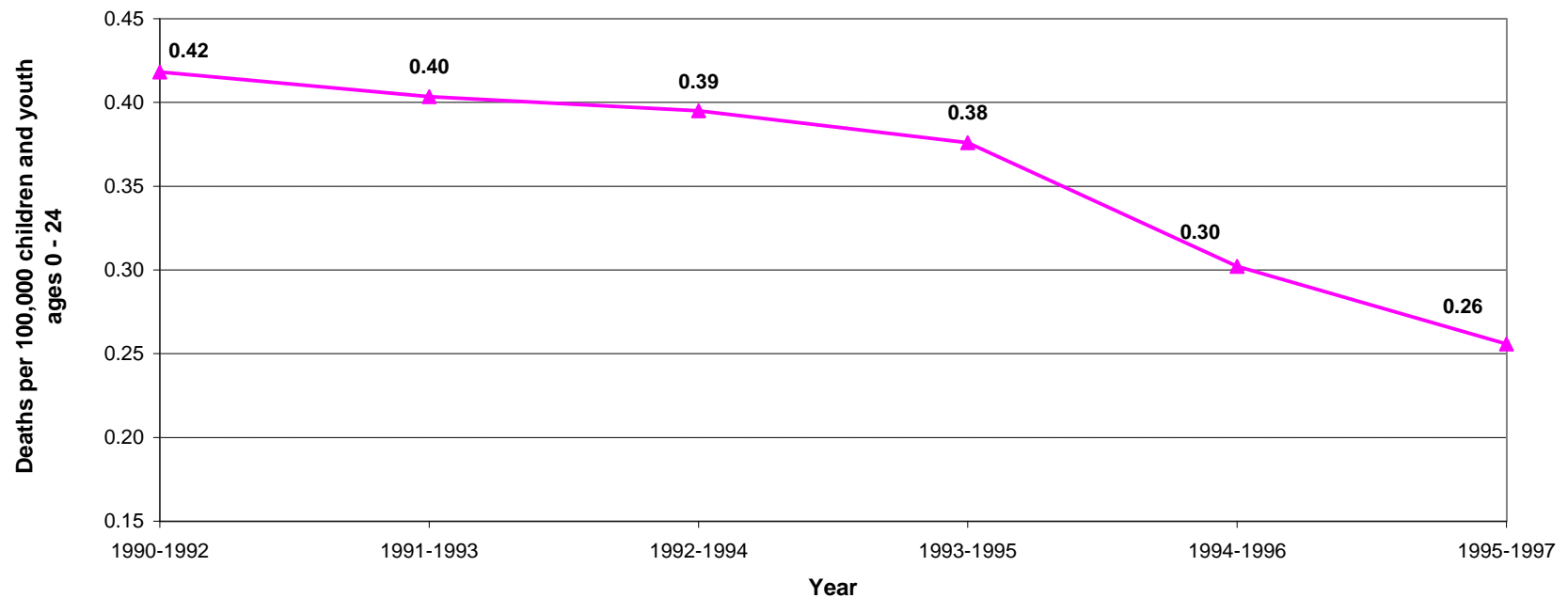
Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Self-Inflicted Injuries  
per 100,000 Children and Youth Ages 0 - 24 by Race/Ethnicity  
Los Angeles County, 1997**



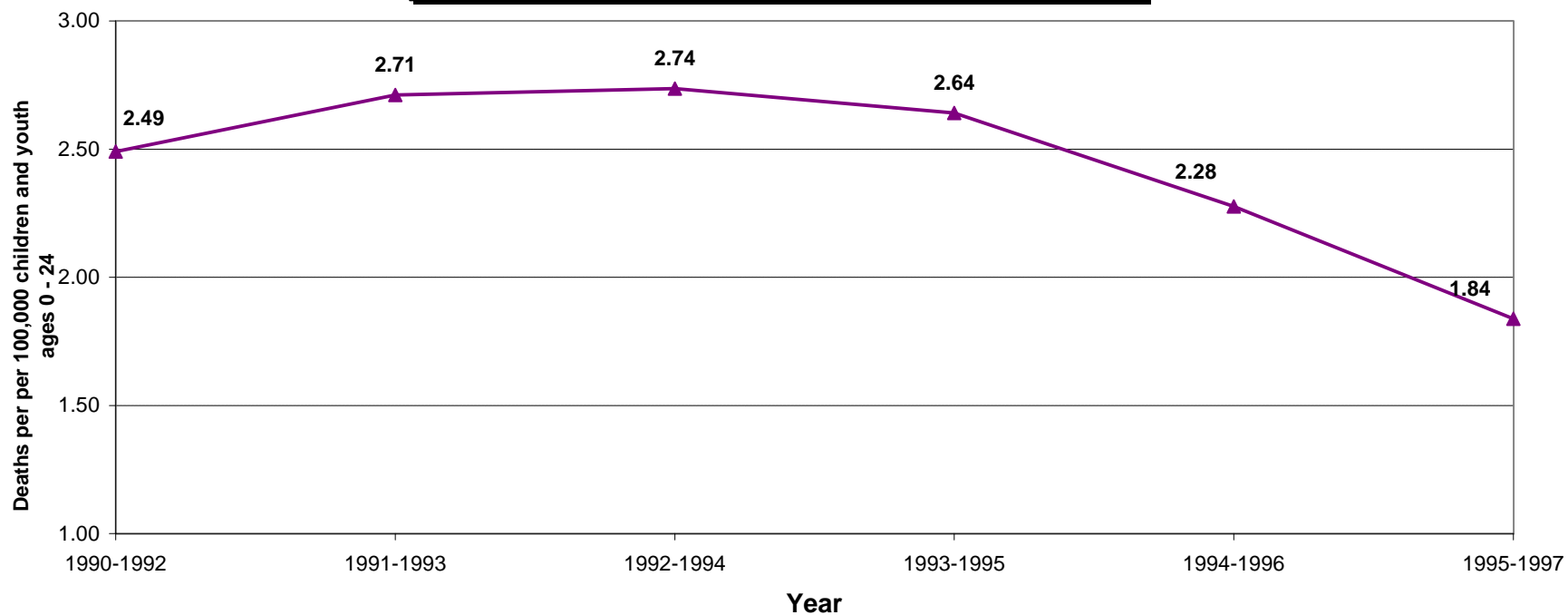
Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Self-Inflicted Poisoning  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 3-Year Averages, 1990 - 1997**



Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

**Deaths Due to Self-Inflicted Firearm Injuries  
per 100,000 Children and Youth Ages 0 - 24  
Los Angeles County, 3-Year Averages, 1990 - 1997**



Sources: 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for  
for Counties with Age and Gender Detail, Sacramento, California, December, 1998

# **TITLE V INDICATOR TEMPLATES**

**INDICATOR: Deaths caused by motor vehicle crashes among children aged 1 to 14 years**

**DEFINITION:** The three year average rate of deaths due to motor vehicle crashes (E-codes 810.0-825.9) per 100,000 per 100,000 children (ages 1 through 14 years)

**NUMERATOR:** The number of deaths due to motor vehicle crashes among children (ages 1 through 14 years), by place of residence (three year average)

**DENOMINATOR:** The total population (ages 1 through 14 years), by place of residence for the middle year of the three year time period of interest

## **HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce deaths caused by motor vehicle crashes to no more than 4.4 per 100,000 children aged 14 and younger (Objective 9.3a)

California MCH Five Year Objective: Reduce deaths among children and youth through age 24 caused by unintentional injuries by at least 15 percent.

**RISK FACTORS:** Low income; race/ethnicity (African American, American Indian, Alaska Native); gender (male); inadequate parental supervision/environmental precautions taken; parental alcohol or substance abuse; lack of health care provider counseling/focus; lack of knowledge about injury protection devices/countermeasures/regulations; lack of consistent legislation/enforcement/use of protective devices; mental health/developmental disability.

## **Deaths caused by motor vehicle crashes among children (ages 1 through 14 years)**

	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	367	6.0	5.4	6.6	97	5.3	4.3	6.4
1990 - 1992	360	5.7	5.1	6.2	92	4.9	3.9	5.9
1991 - 1993	354	5.3	4.8	5.9	96	4.9	3.9	5.9
1992 - 1994	351	5.1	4.6	5.7	95	4.7	3.7	5.6
1993 - 1995	347	5.0	4.4	5.5	95	4.5	3.6	5.4
1994 - 1996	325	4.6	4.1	5.1	86	4.0	3.2	4.9
1995 - 1997	289	4.0	3.5	4.5	78	3.6	2.8	4.4

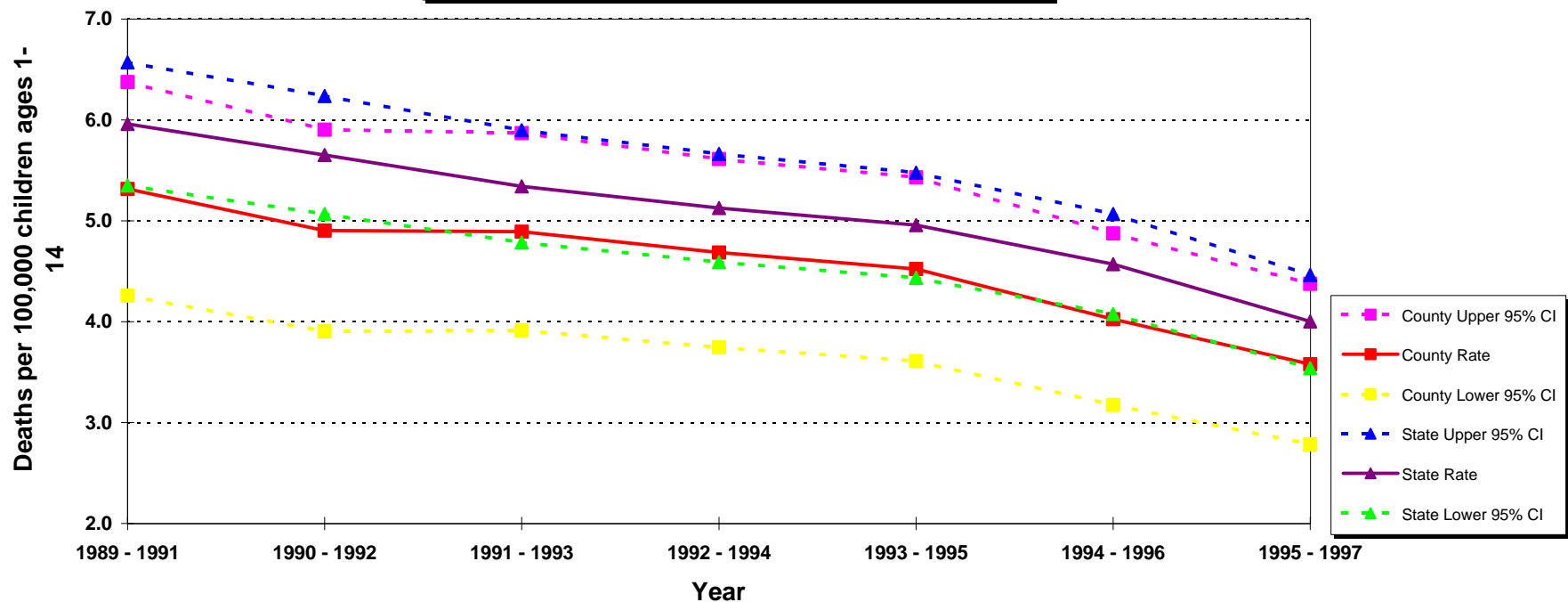
**Sources:** 1989-1997 death records from the California Department of Health Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

DENOMINATOR: Total population ages 1 through 14			NUMERATOR: Deaths among children ages 1 through 14 caused by motor vehicle crashes	
Year	California	LA County	California	LA County
1989	5,972,532	1,801,144	364	98
1990	6,150,887	1,824,234	367	95
1991	6,368,608	1,882,485	369	98
1992	6,633,794	1,969,076	344	84
1993	6,838,145	2,034,285	350	107
1994	6,994,478	2,093,486	358	95
1995	7,116,462	2,136,588	332	82
1996	7,213,270	2,169,419	286	81
1997	7,375,476	2,222,364	248	70



**Deaths Due to Motor Vehicle Crashes  
per 100,000 Children Ages 1 - 14 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Deaths caused by motor vehicle crashes among youth ages 15 through 19 years

**DEFINITION:** The three year average rate of deaths due to motor vehicle crashes (E-codes 810.0-825.9) per 100,000 youth (ages 15 through 19 years)

**NUMERATOR:** The number of deaths due to motor vehicle crashes among youth (ages 15 through 19 years), by place of residence (three year average)

**DENOMINATOR:** The total population (ages 15 through 19 years), by place of residence for the middle year of the three year time period of interest

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce deaths caused by motor vehicle crashes to no more than 26.8 per 100,000 youth aged 15 - 24 (Objective 9.3b)  
California MCH Five Year Objective: Reduce deaths among children and youth through age 24 caused by unintentional injuries by at least 15 percent.

**RISK FACTORS:** Low income; race/ethnicity (African American, American Indian, Alaska Native); gender (male); inadequate parental supervision/environmental precautions taken; parental/personal alcohol or substance abuse; lack of health care provider counseling/focus; lack of knowledge about injury protection devices/countermeasures/regulations; lack of consistent legislation/enforcement/use of protective devices; mental health/developmental disability

### Deaths caused by motor vehicle crashes among youth ( ages 15 through 19 years)

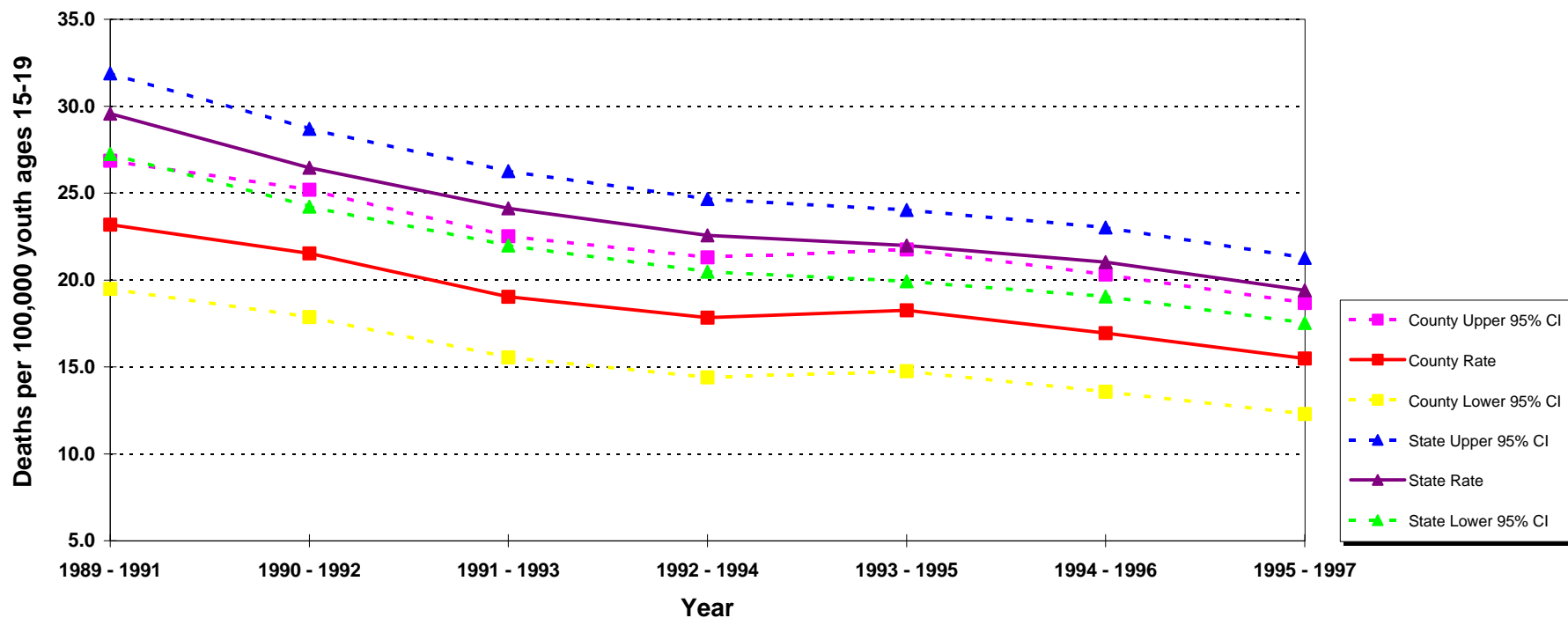
	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	621	29.6	27.2	31.9	152	23.2	19.5	26.9
1990 - 1992	535	26.5	24.2	28.7	132	21.5	17.9	25.2
1991 - 1993	484	24.1	22.0	26.3	114	19.0	15.5	22.5
1992 - 1994	448	22.6	20.5	24.7	103	17.8	14.4	21.3
1993 - 1995	440	22.0	19.9	24.0	104	18.3	14.8	21.8
1994 - 1996	429	21.0	19.0	23.0	97	17.0	13.6	20.3
1995 - 1997	409	19.4	17.5	21.3	90	15.5	12.3	18.7

**Sources:** 1989-1997 death records from the California Department of Health Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

DENOMINATOR: Total population ages 15 through 19			NUMERATOR: Deaths among youth ages 15 through 19 caused by motor vehicle crashes	
Year	California	LA County	California	LA County
1989	2,156,382	687,187	712	154
1990	2,100,315	654,262	582	161
1991	2,020,874	614,804	569	140
1992	2,007,522	598,873	453	96
1993	1,985,114	577,217	431	106
1994	2,000,154	571,586	460	107
1995	2,040,940	572,233	428	100
1996	2,109,874	581,204	400	84
1997	2,176,682	592,761	400	86

**Deaths Caused by Motor Vehicle Crashes  
per 100,000 Youth Ages 15 - 19 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



**Sources:** 1989-1996 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** Deaths due to homicide (assaultive injuries)  
among youth aged 15 through 19 years

**DEFINITION:** The three year average rate per 100,000 youth  
(ages 15 through 19) of deaths due to homicide (E-Codes 960.0-969.9)

**NUMERATOR:** The number of deaths due to homicide youth  
(ages 15 through 19), by place of residence (three year average)

**DENOMINATOR:** The total population ages 15 through 19, by place of residence,  
for the middle year of the three year time period of interest

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce homicides to no more than 7.2 per 100,000 people  
(Objective 7.1)

**RISK FACTORS:** Low income; gender (male); age (teens, young adults); race/ethnicity  
(African American, Hispanic); history of abuse (victim of spousal/intimates, or child  
abuse); substance use/abuse; drug trafficking activity; easy access to firearms

### Deaths due to homicide among youth (aged 15 through 19 years)

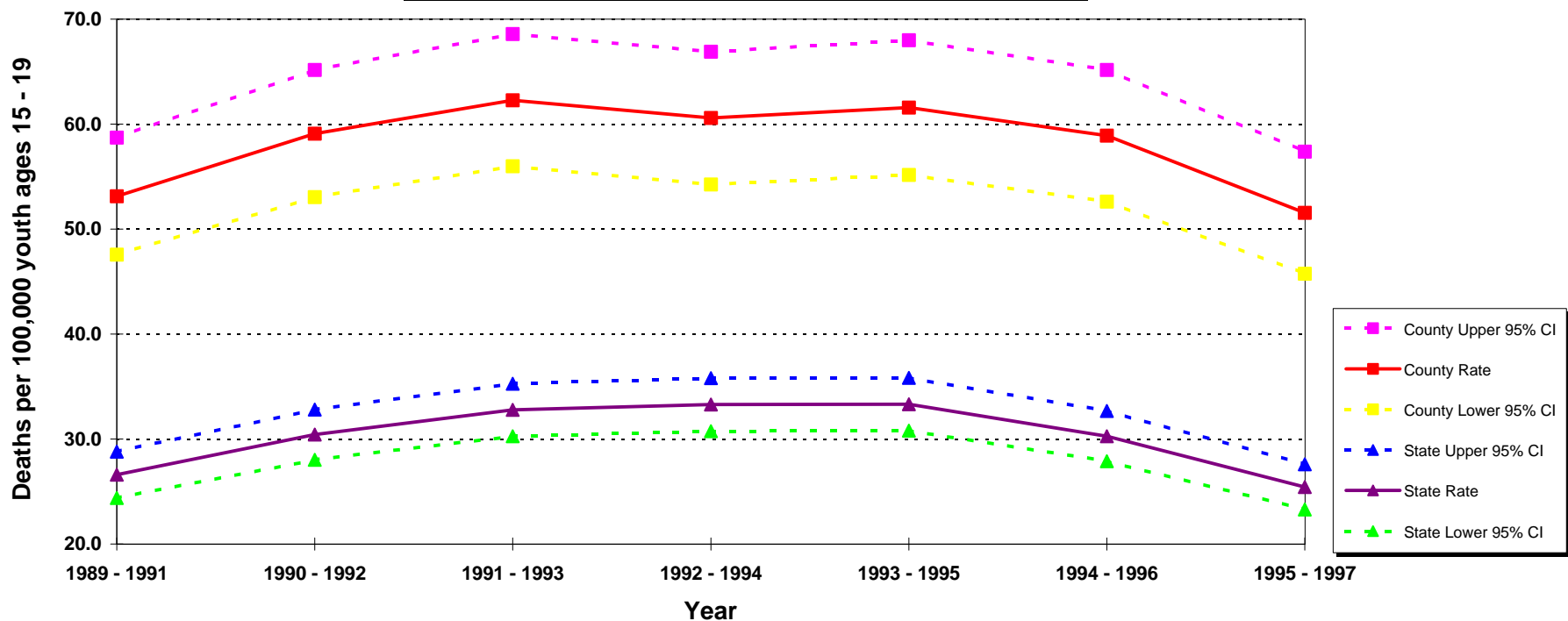
Three Year Average	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	559	26.6	24.4	28.8	348	53.1	47.6	58.7
1990 - 1992	615	30.4	28.0	32.8	363	59.1	53.0	65.2
1991 - 1993	658	32.8	30.3	35.3	373	62.3	56.0	68.6
1992 - 1994	661	33.3	30.7	35.8	350	60.6	54.2	66.9
1993 - 1995	666	33.3	30.8	35.8	352	61.6	55.2	68.0
1994 - 1996	618	30.3	27.9	32.7	337	58.9	52.6	65.2
1995 - 1997	537	25.4	23.3	27.6	300	51.6	45.7	57.4

**Sources:** 1989-1997 death records from the California Department of Health  
Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

DENOMINATOR: Total population ages 15 through 19			NUMERATOR: Deaths among youth (15 - 19) caused by homicide	
Year	California	LA County	California	LA County
1989	2,156,382	687,187	457	307
1990	2,100,315	654,262	539	319
1991	2,020,874	614,804	680	417
1992	2,007,522	598,873	625	354
1993	1,985,114	577,217	669	348
1994	2,000,154	571,586	688	347
1995	2,040,940	572,233	642	361
1996	2,109,874	581,204	524	303
1997	2,176,682	592,761	444	235

**Deaths Due to Assaultive Injuries (Homicide)  
per 100,000 Youth Ages 15 - 19 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## TITLE V INDICATOR TEMPLATES

**INDICATOR: Deaths due to suicide among youth ages 15 to 19 years**

**DEFINITION:** The three year average rate per 100,000 youth (ages 15 -19) of deaths due to suicide (E-Codes 950.0-959.9)

**NUMERATOR:** The number of deaths due to suicide among youth (ages 15 -19), by place of residence (three year average)

**DENOMINATOR:** The total population ages 15 through 19, by place of residence, for the middle year of the three year time period of interest

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce suicides for youth aged 15 to 19 to no more than 8.2 per 100,000 people (Objective 7.2a)

**RISK FACTORS:** Mental health disorders (depression, schizophrenia, anti-social personality disorder, panic disorder); substance use/abuse; gender (male); age (youth ages 15-19); race/ethnicity (White, American Indian); previous suicide attempt; inadequate mental health treatment; precipitous or stressful life events; family history of suicide or psychiatric disorders; exposure to suicidal behaviors; family violence; availability of firearms; low income low socioeconomic status/unemployment.

### Deaths due to suicide among youth ages 15 to 19 years

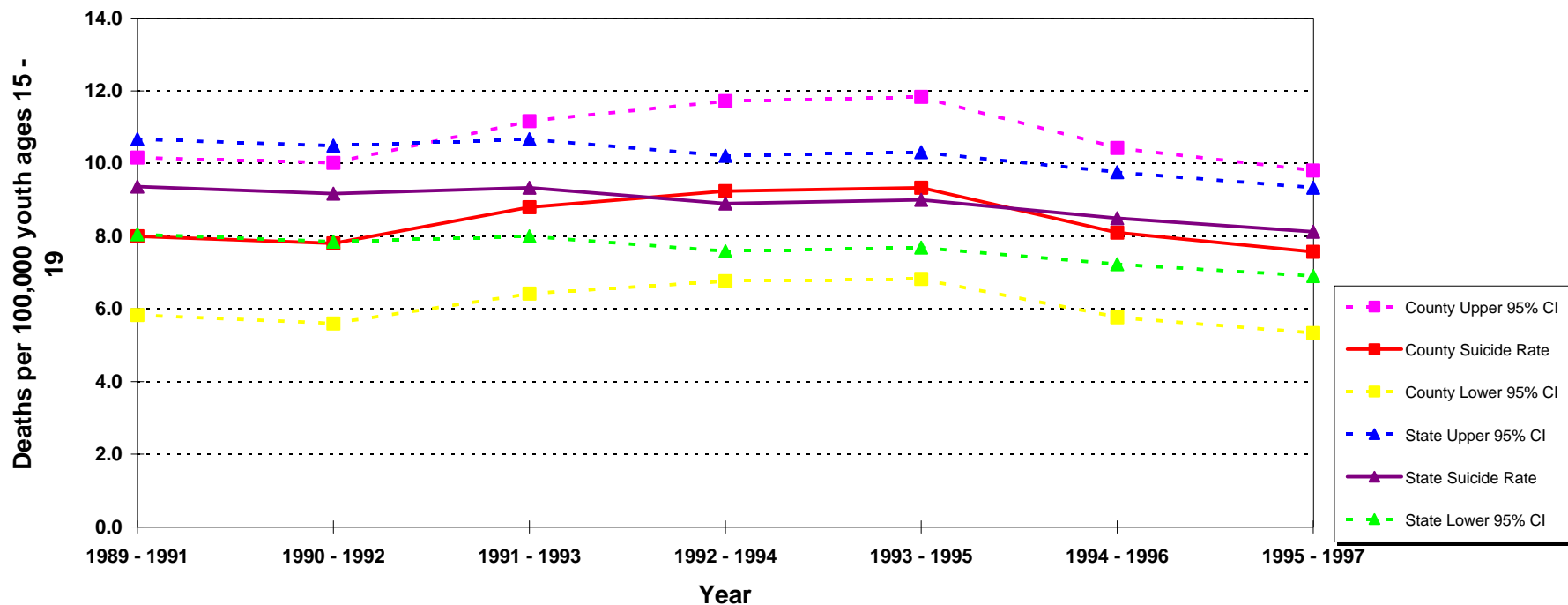
	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	197	9.4	8.1	10.7	52	8.0	5.8	10.2
1990 - 1992	185	9.2	7.9	10.5	48	7.8	5.6	10.0
1991 - 1993	187	9.3	8.0	10.7	53	8.8	6.4	11.2
1992 - 1994	177	8.9	7.6	10.2	53	9.2	6.8	11.7
1993 - 1995	180	9.0	7.7	10.3	53	9.3	6.8	11.8
1994 - 1996	173	8.5	7.2	9.8	46	8.1	5.8	10.4
1995 - 1997	171	8.1	6.9	9.3	44	7.6	5.3	9.8

**Sources:** 1989-1997 death records from the California Department of Health Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

DENOMINATOR: Total population ages 15 through 19			NUMERATOR: Deaths among youth 15 - 19 caused by suicide	
Year	California	LA County	California	LA County
1989	2,156,382	687,187	204	61
1990	2,100,315	654,262	193	55
1991	2,020,874	614,804	193	41
1992	2,007,522	598,873	170	48
1993	1,985,114	577,217	199	69
1994	2,000,154	571,586	161	43
1995	2,040,940	572,233	180	48
1996	2,109,874	581,204	179	48
1997	2,176,682	592,761	155	36

**Deaths Due to Suicide  
per 100,000 Youth Ages 15 - 19 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

## TITLE V INDICATOR TEMPLATES

**INDICATOR:** \*Deaths caused by drowning in swimming pools among children aged 1 to 4 years

**DEFINITION:** The three year average rate of deaths due to drowning in swimming pools (E-code 910.8) per 100,000 children (ages 1 through 4 years)

**NUMERATOR:** The number of deaths due to drowning in swimming pools among children (ages 1 through 4 years), by place of residence (three year average)

**DENOMINATOR:** The total population (ages 1 through 4 years), by place of residence for the middle year of the three year time period of interest

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce deaths caused by drowning to no more than 2.3 per 100,000 children aged 4 and younger (Objective 9.5a)  
California MCH Five Year Objective: Reduce deaths among children and youth through age 24 caused by unintentional injuries by at least 15 percent.

**RISK FACTORS:** Inadequate parental supervision/environmental precautions taken; parental alcohol or substance abuse; lack of health care provider counseling/focus

**\*NOTE:** California will report to the federal Maternal and Child Health Bureau on deaths due to drowning in swimming pools among children aged 1 through 4 years.  
The number of events in most local jurisdictions for this indicator will be small. It is suggested that a line listing report be used to monitor this indicator.

### Deaths caused by drowning in swimming pools among children (ages 1 through 4 years)

	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1989 - 1991	61	3.2	2.4	3.9	19	3.2	1.8	4.6
1990 - 1992	63	3.1	2.3	3.9	18	2.9	1.6	4.3
1991 - 1993	65	3.0	2.3	3.7	17	2.4	1.3	3.6
1992 - 1994	58	2.5	1.9	3.2	16	2.2	1.1	3.3
1993 - 1995	59	2.5	1.9	3.2	16	2.1	1.1	3.2
1994 - 1996	56	2.4	1.7	3.0	14	1.8	0.8	2.8
1995 - 1997	55	2.4	1.8	3.0	12	1.6	0.7	2.6

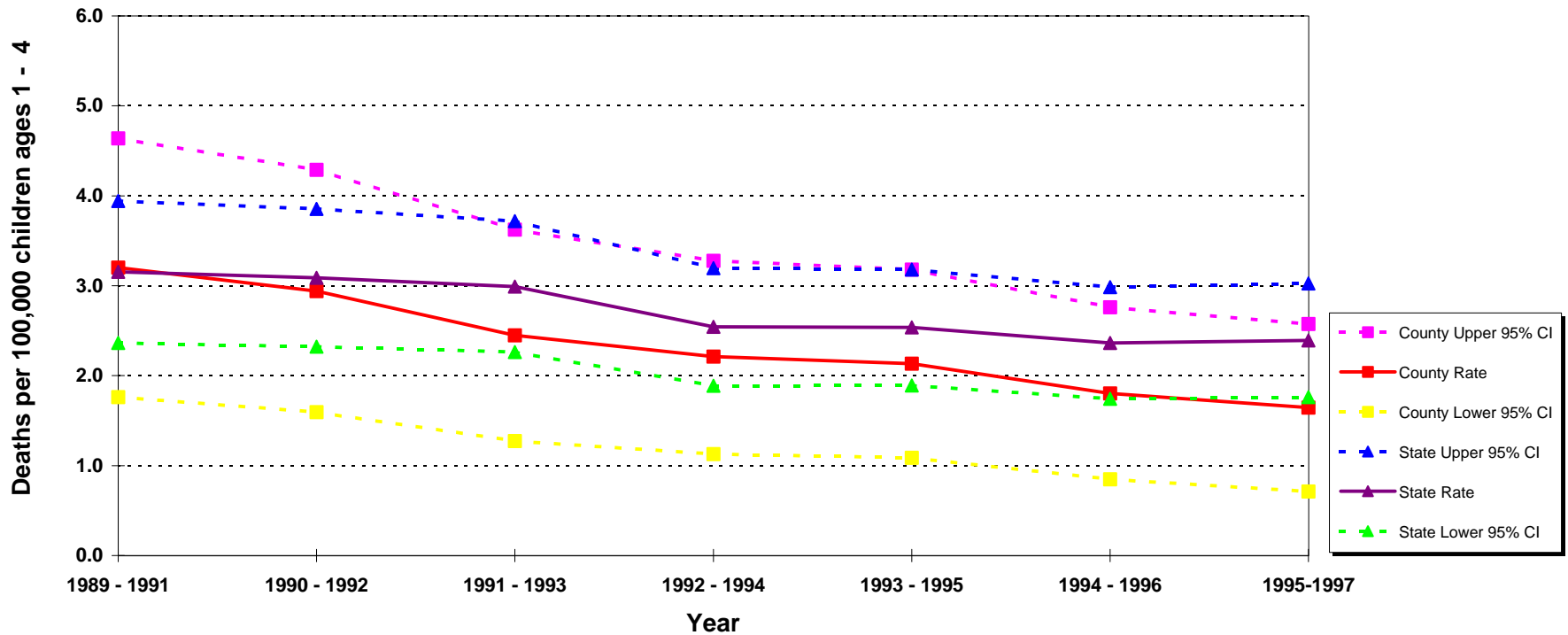
**Sources:** 1989-1996 death records from the California Department of Health Services, Center for Health Statistics

Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

DENOMINATOR: Total population ages 1 through 4			NUMERATOR: Deaths among children ages 1 through 4 caused by drowning in swimming pools	
Year	California	LA County	California	LA County
1989	1,897,477	585,614	51	17
1990	1,944,963	593,702	64	22
1991	2,029,037	623,338	69	18
1992	2,173,164	680,384	55	15
1993	2,281,146	722,936	71	17
1994	2,340,237	750,053	48	16
1995	2,356,048	757,710	59	15
1996	2,298,325	730,172	60	10
1997	2,249,298	705,237	46	11



**Deaths Caused by Drowning in Swimming Pools  
per 100,000 Children Ages 1 - 4 Years  
California vs. Los Angeles County  
Three Year Averages: 1989 through 1997**



**Sources:** 1989-1997 death records from California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, Race/Ethnic Population Estimates  
with Age and Sex Details, 1970-2040, Sacramento, California, December, 1998

# **Domestic Violence**

## DOMESTIC VIOLENCE TEMPLATES

<b>INDICATOR:</b>	<b>*Hospitalizations of females due to violent injuries</b>
<b>DEFINITION:</b>	The rate of hospitalizations due to assaultive injuries (E960.0-969.9) per 100,000 adult women (18 and older)
<b>NUMERATOR:</b>	Total number of women hospitalized due to assaultive injuries (E960.0-E969.9) by place of residence, in a calendar year
<b>DENOMINATOR:</b>	Total adult female population (18 and older), by place of residence in a calendar year
<b>HEALTHY PEOPLE 2000 OBJECTIVE:</b>	None

### Domestic Violence: Hospitalizations due to violent injuries among adult females (18 and older)

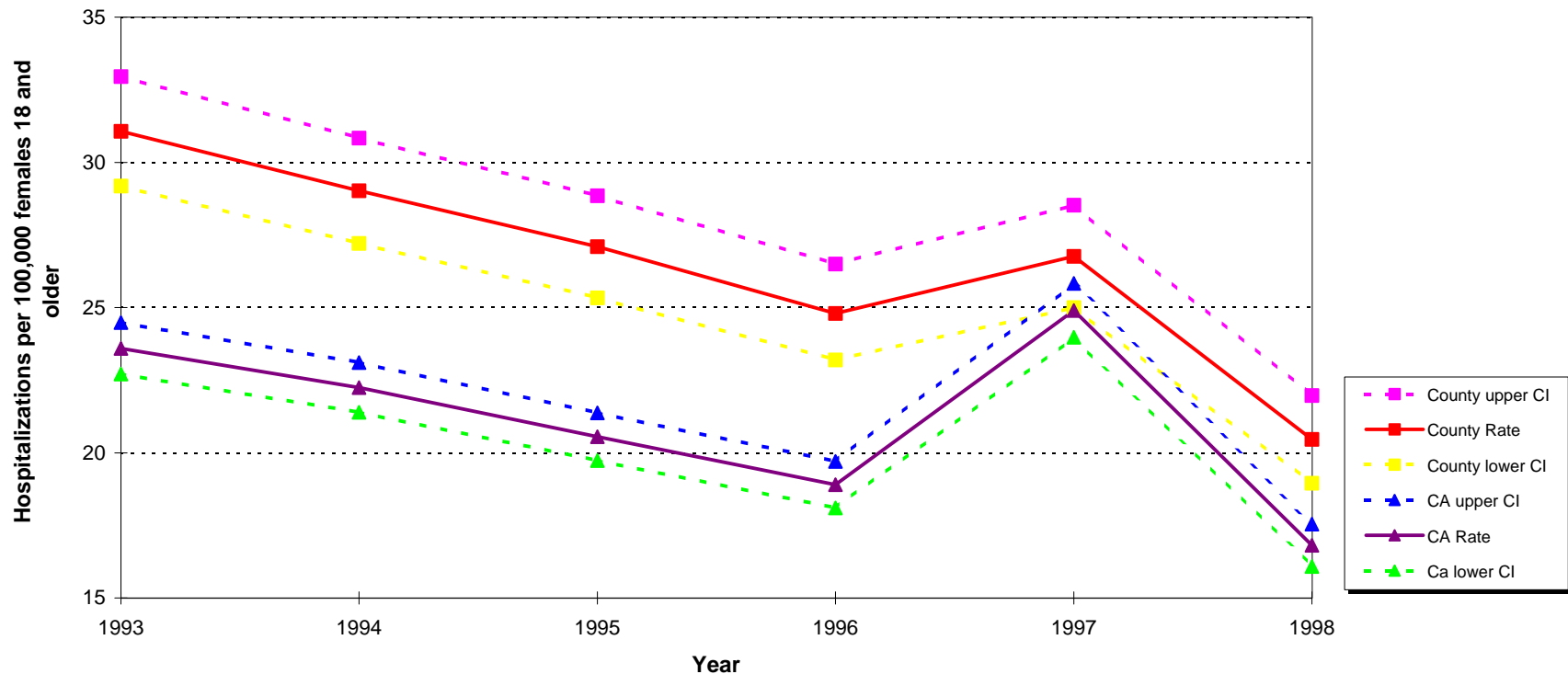
	California				LA County				DENOMINATOR:	
			95% Confidence Interval				95% Confidence Interval		State	County
Year	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper		
1993	2,722	23.6	22.7	24.5	1,049	31.1	29.2	32.9	11,537,684	3,376,333
1994	2,579	22.2	21.4	23.1	982	29.0	27.2	30.8	11,592,025	3,383,789
1995	2,395	20.6	19.7	21.4	917	27.1	25.3	28.8	11,653,206	3,384,734
1996	2,220	18.9	18.1	19.7	841	24.8	23.2	26.5	11,740,692	3,387,118
1997	2,770	24.9	24.0	25.8	886	26.8	25.0	28.5	11,123,667	3,310,295
1998	2,034	16.8	16.1	17.5	704	20.5	18.9	22.0	12,095,809	3,440,773

**\*Note:** Because there is no domestic violence-specific external cause of injury (E-Code) in the current International Classification of Diseases, 9th Revision (ICD-9) clinical modification coding, the numerator in this template reflects hospitalizations due to all types of assaults E-Codes E960-969, "Homicide and Injury Purposely Inflicted by Other Person."

**Source:** 1993-1997 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch

Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

# Hospitalizations per 100,000 Females Ages 18 and older Due to Violent Injuries California vs. Los Angeles County, 1993 - 1998



**Note:** Because there is no domestic violence-specific external cause of injury (E-Code) in the current International Classification of Diseases, 9th Revision (ICD-9) clinical modification coding, the numerator in this template reflects hospitalizations due to all types of assaults E-Codes E960-969, "Homicide and Injury Purposely Inflicted by Other Person."

**Source:** 1993-1998 Hospitalized Injury Surveillance System (HISS) from the California Department of Health Services, Injury Surveillance and Epidemiology Section, Epidemiology and Prevention for Injury Control Branch

Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

## DOMESTIC VIOLENCE TEMPLATES

<b>INDICATOR:</b>	<b>*Deaths due to assaultive injuries (homicide) among adolescent and adult females</b>
<b>DEFINITION:</b>	The three year average rate per 100,000 females (ages 10-44) of deaths due to homicide (E-Codes 960.0-969.9)
<b>NUMERATOR:</b>	The number of deaths due to homicide among females (ages 10-44), by place of residence (three year average)
<b>DENOMINATOR:</b>	The total female population ages 10 through 44 for the middle year of the three year time period of interest
<b>HEALTHY PEOPLE 2000 OBJECTIVE:</b>	Reduce homicides to no more than 7.2 per 100,000 people (Objective 7.1)
<b>RISK FACTORS:</b>	History of abuse (victim of spousal/intimate, or child abuse) easy access to firearms; presence of firearms at home.

### Domestic Violence: Deaths due to homicide among females (10-44 years)

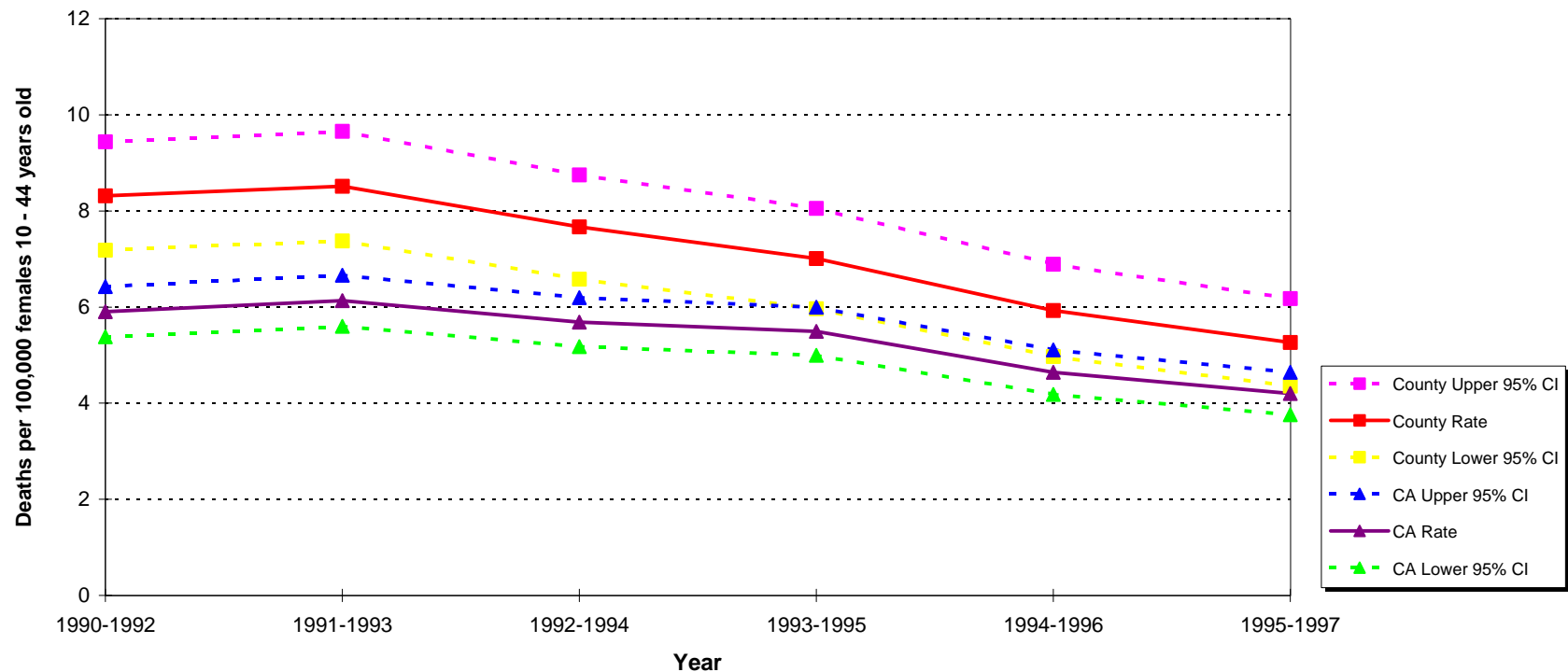
	California				LA County			
			95% Confidence Interval				95% Confidence Interval	
Three Year Average	Number	Rate	Lower	Upper	Number	Rate	Lower	Upper
1990-1992	490	5.9	5.4	6.4	209	8.3	7.2	9.4
1991-1993	511	6.1	5.6	6.7	214	8.5	7.4	9.7
1992-1994	475	5.7	5.2	6.2	191	7.7	6.6	8.8
1993-1995	459	5.5	5.0	6.0	174	7.0	6.0	8.1
1994-1996	387	4.6	4.2	5.1	146	5.9	5.0	6.9
1995-1997	350	4.2	3.8	4.6	129	5.3	4.4	6.2

**\*Note:** Because there is no domestic violence-specific external cause of injury (E-Code) in the current international Classification of Diseases, 9 th Revision (ICD-9) clinical modification coding, the numerator in this template reflects deaths due to all types of assaults (E960-E969)

DENOMINATOR: Total females ages 10-44		
Year	State	County
1990	8,186,887	2,492,010
1991	8,299,112	2,510,040
1992	8,327,630	2,516,916
1993	8,362,073	2,495,601
1994	8,344,900	2,482,258
1995	8,325,150	2,461,412
1996	8,323,308	2,443,075
1997	8,406,870	2,454,227

NUMERATOR: homicides to females ages 10-44		
Year	State	County
1990	477	208
1991	514	211
1992	479	207
1993	539	225
1994	408	142
1995	429	155
1996	323	141
1997	297	90
1998	280	112

### Homicides per 100,000 Females ages 10 - 44 years California vs. Los Angeles County Three-Year Averages 1990 - 1997



**Note:** Because there is no domestic violence-specific external cause of injury (E-Code) in the current International Classification of Diseases, 9th Revision (ICD-9) clinical modification coding, the numerator in this template reflects deaths due to all types of assaults (E960-E969).

**Source:** 1990-1997 death records from the California Department of Health Services, Center for Health Statistics  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

## DOMESTIC VIOLENCE

**INDICATOR:** \*Domestic violence-related calls for assistance

**DEFINITION:** The rate per 1,000 adult population (18 and older) of domestic violence calls to law enforcement agencies

**NUMERATOR:** Total domestic violence-related calls for assistance to law enforcement agencies by county in a calendar year

**DENOMINATOR:** Total adult population (18 yrs. and older) in a county in a calendar year

**HEALTHY PEOPLE 2000 OBJECTIVE:**

Reduce physical violence directed at women by male partners to no more than 27 per 1,000 couples (Objective 7.5)

### Domestic violence-related calls for assistance in the adult population (18 and older)

Year	California				County			
			95% Confidence Interval				95% Confidence Interval	
	Number of calls	Rate	Lower	Upper	Number of calls	Rate	Lower	Upper
1990	195,819	8.9	8.8	8.9	53,743	8.2	8.1	8.3
1991	203,630	9.1	9.0	9.1	61,069	9.2	9.2	9.3
1992	240,826	10.6	10.5	10.6	69,437	10.4	10.3	10.5
1993	236,895	10.3	10.3	10.4	67,732	10.1	10.1	10.2
1994	250,439	10.9	10.8	10.9	72,991	10.9	10.8	11.0
1995	246,315	10.6	10.6	10.7	75,639	11.3	11.2	11.4
1996	227,899	9.8	9.7	9.8	72,725	10.9	10.8	10.9
1997	220,156	9.3	9.2	9.3	67,805	10.0	9.9	10.1
1998	196,832	8.2	8.1	8.2	62,278	9.1	9.1	9.2

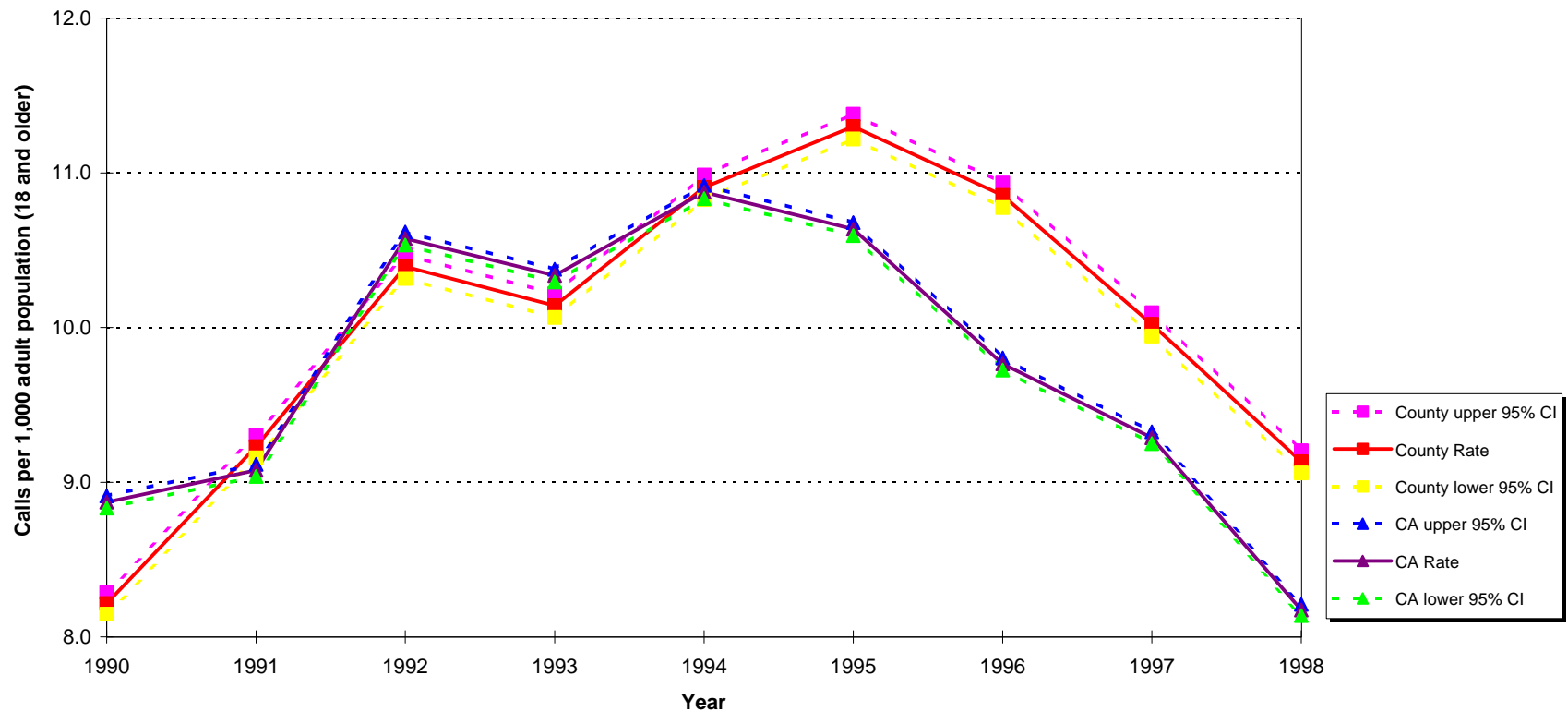
DENOMINATOR: Total adult population (18 and older)	
State	County
22,073,265	6,540,863
22,434,634	6,615,683
22,771,850	6,680,728
22,919,730	6,678,592
23,027,636	6,692,649
23,158,473	6,693,906
23,340,409	6,699,792
23,705,548	6,766,759
24,080,238	6,819,775

**\*Note:** Currently, there is no standard definition of or reporting system for domestic violence. Domestic violence is a complex issue involving many social and psychological forces. Therefore, reliance on a single indicator does not present a complete picture of the problem. To begin addressing these barriers, it is important to identify the existing data sources and understand their advantages and limitations. Local police jurisdictions' mandated reporting on "domestic violence-related calls for assistance" is one data source commonly used to describe the frequency of domestic violence in California, because it is population-based and easily accessible. However, these data only illustrate local law enforcement practices and response to domestic violence calls and are not an adequate source for measuring either the prevalence or incidence of domestic violence injuries.

**Source:** Special Report, "Total Domestic Violence Calls Received by Type of Weapon, by County, 1990 - 1998, California Department of Justice, Division of Law Enforcement, Law Enforcement Information Center.

Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

# **Domestic Violence Calls to Law Enforcement per 1,000 Adult Population Ages 18 and Older California vs. Los Angeles County, 1990 - 1998**



**Source:** Special Report, "Total Domestic Violence Calls Received by Type of Weapon, by County, 1990 - 1998, California Department of Justice, Division of Law Enforcement, Law Enforcement Information Center.  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998



## DOMESTIC VIOLENCE

**INDICATOR:** Domestic violence-related calls for assistance:  
Cases with weapons

**DEFINITION:** The number and proportion of domestic violence calls to law enforcement agencies that involved weapons

**NUMERATOR:** Number of domestic violence calls with weapons

**DENOMINATOR:** Total number of domestic violence calls to law enforcement agencies

**HEALTHY PEOPLE 2000 OBJECTIVE:** None

### Domestic violence-related calls for assistance: Cases with weapons

	County						
	Domestic violence-related calls for assistance			Number by type of weapon			
Year	Number of calls	Proportion (%)	Number with weapons	Firearm	Knife / or Cutting Instrument	Other dangerous weapon	Hands, Fist, Feet, Etc.
1990	53,743	78.4%	42,138	953	2,118	3,521	31,257
1991	61,069	77.2%	47,173	1,578	2,337	4,184	39,074
1992	69,437	76.1%	52,830	1,413	2,711	5,453	43,253
1993	67,732	76.5%	51,809	1,418	2,612	5,507	42,272
1994	72,991	75.6%	55,203	1,371	2,634	6,058	45,140
1995	75,639	74.2%	56,129	1,178	2,573	6,035	46,343
1996	72,725	72.5%	52,729	958	2,474	6,168	43,129
1997	67,805	71.6%	48,559	781	2,122	5,558	40,098
1998	62,278	70.0%	43,619	622	1,852	5,055	36,090

**Source:** Special Report, "Total Domestic Violence Calls Received by Type of Weapon, by County"  
1990-1998, California Department of Justice,  
Division of Law Enforcement, Law Enforcement Information Center

## DOMESTIC VIOLENCE

**INDICATOR:** Domestic Violence: Arrests for spousal abuse

**DEFINITION:** The rate per 1,000 adult population (18 and older) of arrest for domestic violence incidents

**NUMERATOR:** The total number of arrests for spousal abuse (violation of Penal Code Section 273.5, male and female perpetrators) by region, in a calendar year

**DENOMINATOR:** Total adult population, by place of residence in a calendar year

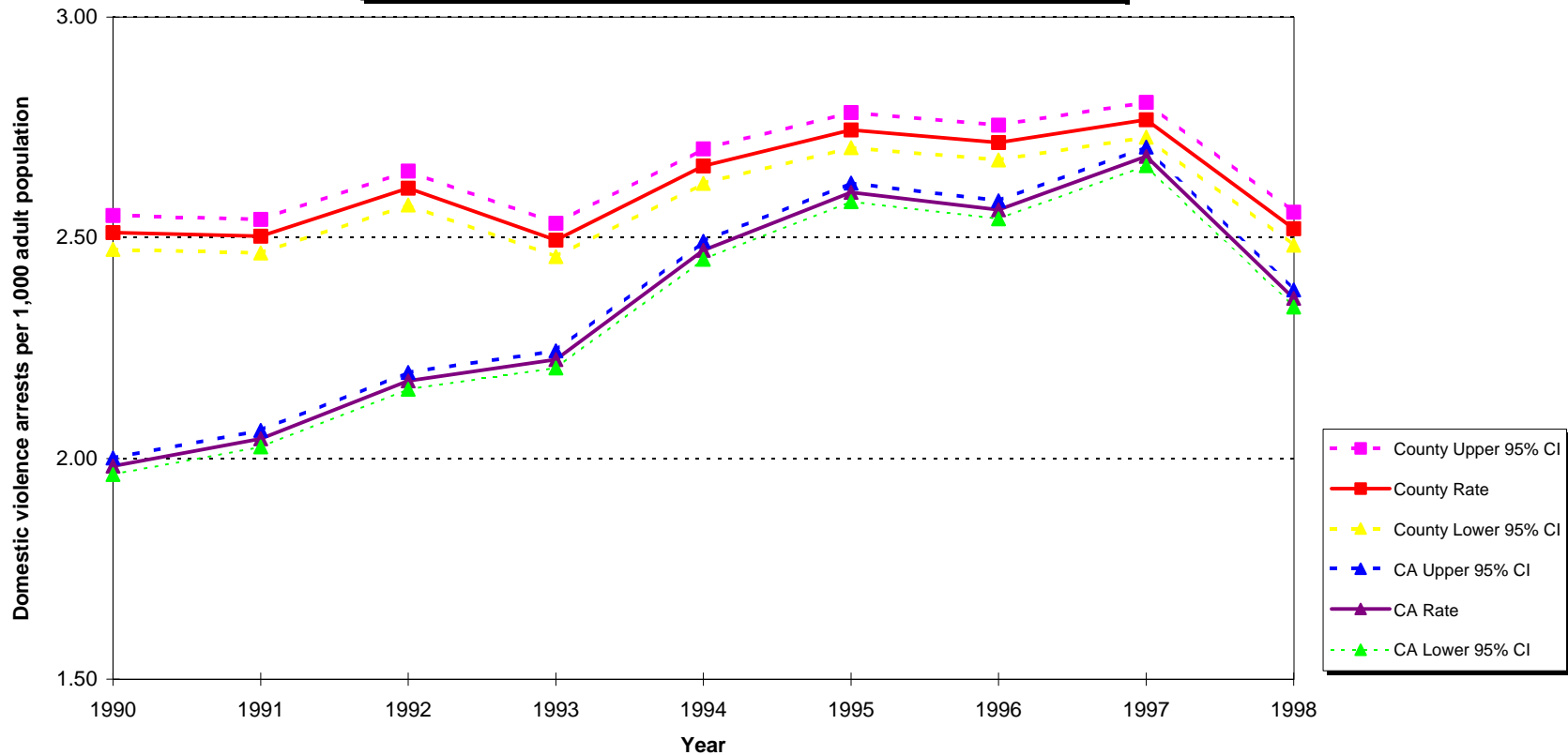
**HEALTHY PEOPLE 2000 OBJECTIVE:** None

### Domestic Violence: Arrests for spousal abuse

California							County						DENOMINATOR:	
Year	Total	Male	Female	Rate	Lower 95% CI	Upper 95% CI	Total	Male	Female	Rate	Lower 95% CI	Upper 95% CI	State	County
1990	43,760	40,905	2,855	2.0	2.0	2.0	16,430	15,362	1,068	2.5	2.5	2.6	22,073,265	6,540,863
1991	45,877	42,318	3,359	2.0	2.0	2.1	16,562	15,337	1,225	2.5	2.5	2.5	22,434,634	6,615,683
1992	49,547	45,349	4,198	2.2	2.2	2.2	17,455	15,978	1,479	2.6	2.6	2.7	22,771,850	6,680,728
1993	50,982	46,063	4,919	2.2	2.2	2.2	16,663	14,983	1,680	2.5	2.5	2.5	22,919,730	6,678,592
1994	56,919	50,473	6,446	2.5	2.5	2.5	17,820	15,778	2,042	2.7	2.6	2.7	23,027,636	6,692,649
1995	60,279	52,394	7,885	2.6	2.6	2.6	18,369	15,945	2,424	2.7	2.7	2.8	23,158,473	6,693,906
1996	59,828	51,219	8,609	2.6	2.5	2.6	18,197	15,639	2,558	2.7	2.7	2.8	23,340,409	6,699,792
1997	63,636	53,778	9,858	2.7	2.7	2.7	18,726	15,819	2,907	2.8	2.7	2.8	23,705,548	6,766,759
1998	56,892	47,519	9,373	2.4	2.34	2.38	17,190	14,330	2,860	2.52	2.48	2.56	24,080,238	6,819,775

**Source:** Special Report, "Adult and Juvenile Arrests Reported, Arrested for PC 273.5 (Spousal Abuse) by County by Sex of Arrestee", 1990-1998, California Department of Justice, Div. of Law Enforcement, Law Enforcement Information Center.  
Denominator data: State of California, Department of Finance, 1970-2020 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998

### Domestic Violence Arrests per 1,000 Adult Population Ages 18 and Older California vs. Los Angeles County, 1990 - 1998



**Source:** Special Report, "Adult and Juvenile Arrests Reported, Arrested for PC 273.5 (Spousal Abuse) by County by Sex of Arrestee", 1990-1998, California Department of Justice, Div. of Law Enforcement, Law Enforcement Information Center.  
Denominator data: State of California, Department of Finance, 1970-2040 Race/Ethnic Population Estimates for Counties with Age and Gender Detail, Sacramento, California, December, 1998



# LACDHS

## Family Health Programs

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Public Health Programs  
Los Angeles County, Department of Health Services

Statistical Calculation, Charting, Mapping & Research Performed  
Diana Y. Liu, Epidemiologist  
Diana Kurniawan, Epidemiology Analyst  
Margaret Chao, Senior Staff Analyst  
J. Carmen Gutierrez, Data System Analyst I  
Shelly Tillett, Intermediate Typist Clerk